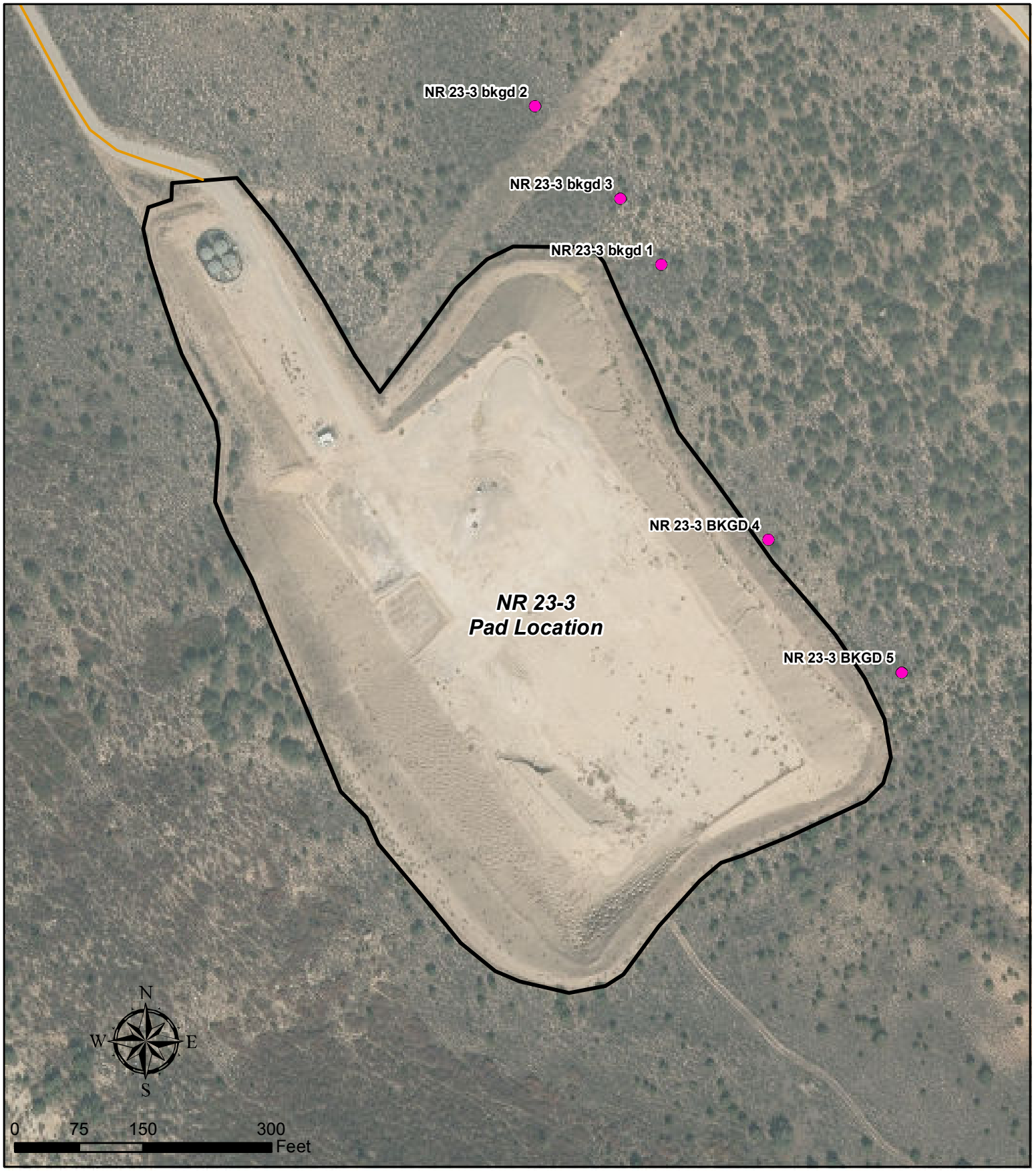

Legend

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

NR 23-3
Arsenic Background Sample Location Map
T6S R94W, Section 3

July 9, 2014

WPXENERGY

T:\Projects\PIC_MultiProspect\Ongoing\ArsenicSampling\NR 23-3.mxd mreynold 7/9/2014 9:40:46 AM

07-Jul-2014

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

Re: **WPX NR 23-3 Cuttings 6.30.14** Work Order: **1407015**

Dear Mark,

ALS Environmental received 1 sample on 01-Jul-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 24.

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: 07-Jul-14

Client: HRL Compliance Solutions, Inc
Project: WPX NR 23-3 Cuttings 6.30.14
Work Order: **1407015**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1407015-01	NR 23-3 Cuttings	Soil		6/30/2014 11:40	7/1/2014 09:30	☐

Client: HRL Compliance Solutions, Inc
Project: WPX NR 23-3 Cuttings 6.30.14
Work Order: 1407015

Case Narrative

QC Summary

Semi-Volatile Organic Compounds

Batch 60218, Method 8270, Sample 1407015-01B: Surrogate out due to matrix interference.

Chromium, Hexavalent

Batch 60231, Method 7196, Sample 1407015-01BMS: The MS and/or MSD recovery was below the control limit. The corresponding result in the parent sample may be biased low.

ALS Group USA, Corp

Date: *07-Jul-14*

Client: HRL Compliance Solutions, Inc
Project: WPX NR 23-3 Cuttings 6.30.14 **Work Order:** 1407015
Sample ID: NR 23-3 Cuttings **Lab ID:** 1407015-01
Collection Date: 6/30/2014 11:40 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 7/1/14	Analyst: **IT**
DRO (C10-C28)	**23**		**4.7**	**mg/Kg-dry**	1	7/2/2014 02:04 PM
Surr: 4-Terphenyl-d14	*79.1*		*39-133*	*%REC*	1	7/2/2014 02:04 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep: SW5035 / 7/1/14	Analyst: **IT**
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	7/1/2014 06:51 PM
Surr: Toluene-d8	*104*		*50-150*	*%REC*	1	7/1/2014 06:51 PM
MERCURY BY CVAA			**SW7471**		Prep: SW7471 / 7/1/14	Analyst: **LR**
Mercury	**0.048**		**0.017**	**mg/Kg-dry**	1	7/2/2014 05:29 PM
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 7/1/14	Analyst: **ML**
Arsenic	**4.5**		**1.7**	**mg/Kg-dry**	5	7/2/2014 03:51 AM
Barium	**4,300**		**17**	**mg/Kg-dry**	50	7/2/2014 07:10 PM
Cadmium	**0.77**		**0.67**	**mg/Kg-dry**	5	7/2/2014 03:51 AM
Chromium	**10**		**1.7**	**mg/Kg-dry**	5	7/2/2014 03:51 AM
Copper	**17**		**1.7**	**mg/Kg-dry**	5	7/2/2014 03:51 AM
Lead	**12**		**1.7**	**mg/Kg-dry**	5	7/2/2014 03:51 AM
Nickel	**15**		**1.7**	**mg/Kg-dry**	5	7/2/2014 03:51 AM
Selenium	ND		1.7	mg/Kg-dry	5	7/2/2014 03:51 AM
Silver	ND		1.7	mg/Kg-dry	5	7/2/2014 03:51 AM
Zinc	**55**		**3.3**	**mg/Kg-dry**	5	7/2/2014 03:51 AM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep: USDA Method 20B / 7/3/14	Analyst: **ML**
Calcium	**51**		**10**	**mg/L**	20	7/3/2014 01:12 PM
Magnesium	**14**		**4.0**	**mg/L**	20	7/3/2014 01:12 PM
Sodium	**800**		**4.0**	**mg/L**	20	7/3/2014 01:12 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 7/3/14	Analyst: **ML**
Sodium Adsorption Ratio	**26**		**0.010**	**none**	1	7/3/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep: SW3541 / 7/1/14	Analyst: **RM**
Acenaphthene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Anthracene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Chrysene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM

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

ALS Group USA, Corp

Date: *07-Jul-14*

Client: HRL Compliance Solutions, Inc
Project: WPX NR 23-3 Cuttings 6.30.14 **Work Order:** 1407015
Sample ID: NR 23-3 Cuttings **Lab ID:** 1407015-01
Collection Date: 6/30/2014 11:40 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Fluorene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Pyrene	ND		7.6	µg/Kg-dry	1	7/1/2014 11:30 PM
Surr: 2-Fluorobiphenyl	*42.2*		*12-100*	*%REC*	1	7/1/2014 11:30 PM
Surr: 4-Terphenyl-d14	*103*		*25-137*	*%REC*	1	7/1/2014 11:30 PM
Surr: Nitrobenzene-d5	*36.7*	S	*37-107*	*%REC*	1	7/1/2014 11:30 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 7/1/14	Analyst: **BG**
Benzene	ND		34	µg/Kg-dry	1	7/1/2014 07:12 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	7/1/2014 07:12 PM
m,p-Xylene	ND		68	µg/Kg-dry	1	7/1/2014 07:12 PM
o-Xylene	ND		34	µg/Kg-dry	1	7/1/2014 07:12 PM
Toluene	**61**		**34**	**µg/Kg-dry**	1	7/1/2014 07:12 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	7/1/2014 07:12 PM
Surr: 1,2-Dichloroethane-d4	*91.0*		*70-130*	*%REC*	1	7/1/2014 07:12 PM
Surr: 4-Bromofluorobenzene	*97.5*		*70-130*	*%REC*	1	7/1/2014 07:12 PM
Surr: Dibromofluoromethane	*94.8*		*70-130*	*%REC*	1	7/1/2014 07:12 PM
Surr: Toluene-d8	*95.9*		*70-130*	*%REC*	1	7/1/2014 07:12 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 7/3/14	Analyst: **JB**
Electrical Conductivity @ Saturation	**4.5**		**0.050**	**mmhos/cm @25**	10	7/3/2014 01:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **EE**
Chromium, Trivalent	**10**		**0.57**	**mg/Kg-dry**	1	7/2/2014 04:15 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 7/2/14	Analyst: **EE**
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	7/2/2014 01:00 PM
MOISTURE			**A2540 G**			Analyst: **TM**
Moisture	**12**		**0.050**	**% of sample**	1	7/1/2014 03:06 PM
PH			**SW9045D**		Prep: EXTRACT / 7/2/14	Analyst: **AT**
pH	**9.3**			**s.u.**	1	7/2/2014 04:19 PM

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

ALS Group USA, Corp

Date: 07-Jul-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
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: 07-Jul-14

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1407015

Project: WPX NR 23-3 Cuttings 6.30.14

Batch ID: **60201** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-60201-60201** Units: **mg/Kg** Analysis Date: **7/2/2014 10:13 AM**

Client ID: Run ID: **GC8_140702A** SeqNo: **2834021** Prep Date: **7/1/2014** 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	*2.026*	0	*2*	0	*101*	*39-133*	0			

LCS Sample ID: **DLCSS1-60201-60201** Units: **mg/Kg** Analysis Date: **7/2/2014 11:04 AM**

Client ID: Run ID: **GC8_140702A** SeqNo: **2834022** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	174.5	5.0	200	0	87.2	61-109	0			
Surr: 4-Terphenyl-d14	*1.687*	0	*2*	0	*84.4*	*39-133*	0			

MS Sample ID: **14061535-01A MS** Units: **mg/Kg** Analysis Date: **7/2/2014 11:34 AM**

Client ID: Run ID: **GC8_140702A** SeqNo: **2834023** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	947.6	7.9	317.8	715.2	73.1	48-110	0			
Surr: 4-Terphenyl-d14	*3.197*	0	*3.178*	0	*101*	*39-133*	0			

MSD Sample ID: **14061535-01A MSD** Units: **mg/Kg** Analysis Date: **7/2/2014 12:04 PM**

Client ID: Run ID: **GC8_140702A** SeqNo: **2834024** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	925.3	8.1	323.7	715.2	64.9	48-110	947.6	2.38	30	
Surr: 4-Terphenyl-d14	*3.378*	0	*3.237*	0	*104*	*39-133*	3.197	*5.5*	*30*	

The following samples were analyzed in this batch: 1407015-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60214** Instrument ID **GC9** Method: **SW8015**

MBLK Sample ID: **MBLK-60214-60214** Units: **µg/Kg** Analysis Date: **7/1/2014 04:41 PM**
Client ID: Run ID: **GC9_140701A** SeqNo: **2832527** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	*5238*	0	*5000*	0	*105*	*50-150*	0			

LCS Sample ID: **LCS-60214-60214** Units: **µg/Kg** Analysis Date: **7/1/2014 04:14 PM**
Client ID: Run ID: **GC9_140701A** SeqNo: **2832526** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	525800	2,500	500000	0	105	70-130	0			
Surr: Toluene-d8	*4461*	0	*5000*	0	*89.2*	*50-150*	0			

MS Sample ID: **1407014-01A MS** Units: **µg/Kg** Analysis Date: **7/1/2014 05:59 PM**
Client ID: Run ID: **GC9_140701A** SeqNo: **2832529** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	543000	2,500	500000	0	109	70-130	0			
Surr: Toluene-d8	*4750*	0	*5000*	0	*95*	*50-150*	0			

MS Sample ID: **1407014-01A MS** Units: **µg/Kg** Analysis Date: **7/1/2014 06:25 PM**
Client ID: Run ID: **GC9_140701A** SeqNo: **2832530** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	527200	2,500	500000	0	105	70-130	0			
Surr: Toluene-d8	*4772*	0	*5000*	0	*95.4*	*50-150*	0			

The following samples were analyzed in this batch: 1407015-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60220** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-60220-60220** Units: **mg/Kg** Analysis Date: **7/2/2014 04:42 PM**
Client ID: Run ID: **HG1_140702A** SeqNo: **2834215** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.016								

LCS Sample ID: **LCS-60220-60220** Units: **mg/Kg** Analysis Date: **7/2/2014 04:44 PM**
Client ID: Run ID: **HG1_140702A** SeqNo: **2834216** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1454	0.017	0.138	0	105	80-120	0			

MS Sample ID: **1407049-01BMS** Units: **mg/Kg** Analysis Date: **7/2/2014 05:43 PM**
Client ID: Run ID: **HG1_140702A** SeqNo: **2834236** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1511	0.017	0.1386	0.01557	97.8	75-125	0			

MSD Sample ID: **1407049-01BMSD** Units: **mg/Kg** Analysis Date: **7/2/2014 05:45 PM**
Client ID: Run ID: **HG1_140702A** SeqNo: **2834237** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1409	0.016	0.1363	0.01557	91.9	75-125	0.1511	7.02	35	

The following samples were analyzed in this batch: 1407015-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60213** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-60213-60213** Units: **mg/Kg** Analysis Date: **7/2/2014 01:57 AM**
Client ID: Run ID: **ICPMS1_140701A** SeqNo: **2832165** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	0.0665	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.03809	0.50								J

LCS Sample ID: **LCS-60213-60213** Units: **mg/Kg** Analysis Date: **7/2/2014 02:03 AM**
Client ID: Run ID: **ICPMS1_140701A** SeqNo: **2832167** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.898	0.25	5	0	98	80-120	0			
Barium	4.974	0.25	5	0	99.5	80-120	0			
Cadmium	4.93	0.10	5	0	98.6	80-120	0			
Chromium	5.065	0.25	5	0	101	80-120	0			
Copper	4.92	0.25	5	0	98.4	80-120	0			
Lead	4.98	0.25	5	0	99.6	80-120	0			
Nickel	4.974	0.25	5	0	99.5	80-120	0			
Selenium	4.514	0.25	5	0	90.3	80-120	0			
Silver	4.88	0.25	5	0	97.6	80-120	0			
Zinc	4.974	0.50	5	0	99.5	80-120	0			

MS Sample ID: **1407017-02AMS** Units: **mg/Kg** Analysis Date: **7/2/2014 04:54 AM**
Client ID: Run ID: **ICPMS1_140701A** SeqNo: **2832234** Prep Date: **7/1/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.605	1.7	6.812	5.188	64.8	75-125	0			S
Barium	118.7	1.7	6.812	105.7	191	75-125	0			SO
Cadmium	7.136	0.68	6.812	0.8182	92.7	75-125	0			
Chromium	16.39	1.7	6.812	8.038	123	75-125	0			
Copper	17.9	1.7	6.812	12.63	77.4	75-125	0			
Lead	19.06	1.7	6.812	13.39	83.1	75-125	0			
Nickel	17.13	1.7	6.812	11.02	89.7	75-125	0			
Selenium	7.316	1.7	6.812	1.225	89.4	75-125	0			
Silver	6.039	1.7	6.812	0.04556	88	75-125	0			
Zinc	51.06	3.4	6.812	45.3	84.6	75-125	0			O

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60213** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1407017-02AMSD** Units: **mg/Kg** Analysis Date: **7/2/2014 05:01 AM**

Client ID: Run ID: **ICPMS1_140701A** SeqNo: **2832238** Prep Date: **7/1/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.441	1.7	6.775	5.188	62.8	75-125	9.605	1.72	25	S
Barium	106.4	1.7	6.775	105.7	10.2	75-125	118.7	10.9	25	SO
Cadmium	6.978	0.68	6.775	0.8182	90.9	75-125	7.136	2.23	25	
Chromium	16.54	1.7	6.775	8.038	125	75-125	16.39	0.901	25	S
Copper	17.71	1.7	6.775	12.63	74.9	75-125	17.9	1.1	25	S
Lead	18.83	1.7	6.775	13.39	80.3	75-125	19.06	1.19	25	
Nickel	17.25	1.7	6.775	11.02	91.9	75-125	17.13	0.682	25	
Selenium	7.652	1.7	6.775	1.225	94.9	75-125	7.316	4.49	25	
Silver	6.037	1.7	6.775	0.04556	88.4	75-125	6.039	0.0371	25	
Zinc	51.12	3.4	6.775	45.3	85.9	75-125	51.06	0.121	25	O

The following samples were analyzed in this batch: 1407015-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60232** Instrument ID **ICPMS1** Method: **SW6020A**

DUP Sample ID: **1407085-01ADUP** Units: **mg/L** Analysis Date: **7/3/2014 02:16 PM**
Client ID: Run ID: **ICPMS1_140703A** SeqNo: **2836867** Prep Date: **7/3/2014** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	531.4	10	0	0	0	0-0	479.8	10.2		
Magnesium	208	4.0	0	0	0	0-0	189.2	9.48		
Sodium	1811	4.0	0	0	0	0-0	1659	8.77		

DUP Sample ID: **1407085-01ADUP** Units: **none** Analysis Date: **7/3/2014**
Client ID: Run ID: **SAR_140703A** SeqNo: **2837131** Prep Date: **7/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	16.87	0.010	0	0	0		16.23	3.81	50	

The following samples were analyzed in this batch: 1407015-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60218** Instrument ID **SVMS8** Method: **SW8270**

MBLK Sample ID: **SBLKS1-60218-60218** Units: **µg/Kg** Analysis Date: **7/1/2014 11:39 PM**
Client ID: Run ID: **SVMS8_140701A** SeqNo: **2833656** Prep Date: **7/1/2014** 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	*1186*	0	*1667*	0	*71.2*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1666*	0	*1667*	0	*99.9*	*25-137*	0			
Surr: Nitrobenzene-d5	*1214*	0	*1667*	0	*72.8*	*37-107*	0			

LCS Sample ID: **SLCSS1-60218-60218** Units: **µg/Kg** Analysis Date: **7/2/2014 12:01 AM**
Client ID: Run ID: **SVMS8_140701A** SeqNo: **2833658** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	460.3	6.7	666.7	0	69	45-110	0			
Acenaphthylene	528.7	6.7	666.7	0	79.3	45-105	0			
Anthracene	551.7	6.7	666.7	0	82.7	55-105	0			
Benzo(a)anthracene	578.3	6.7	666.7	0	86.7	50-110	0			
Benzo(a)pyrene	641.7	6.7	666.7	0	96.2	50-110	0			
Benzo(b)fluoranthene	595	6.7	666.7	0	89.2	45-115	0			
Benzo(g,h,i)perylene	567.3	6.7	666.7	0	85.1	40-125	0			
Benzo(k)fluoranthene	546.7	6.7	666.7	0	82	45-115	0			
Chrysene	553	6.7	666.7	0	82.9	55-110	0			
Dibenzo(a,h)anthracene	645.3	6.7	666.7	0	96.8	40-125	0			
Fluoranthene	575	6.7	666.7	0	86.2	55-115	0			
Fluorene	496.3	6.7	666.7	0	74.4	50-110	0			
Indeno(1,2,3-cd)pyrene	696.3	6.7	666.7	0	104	40-120	0			
Naphthalene	454	6.7	666.7	0	68.1	40-105	0			
Pyrene	575	6.7	666.7	0	86.2	45-125	0			
Surr: 2-Fluorobiphenyl	*1153*	0	*1667*	0	*69.2*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1558*	0	*1667*	0	*93.5*	*25-137*	0			
Surr: Nitrobenzene-d5	*1241*	0	*1667*	0	*74.5*	*37-107*	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60218** Instrument ID **SVMS8** Method: **SW8270**

MS Sample ID: **1407016-02B MS** Units: **µg/Kg** Analysis Date: **7/2/2014 01:00 AM**
Client ID: Run ID: **SVMS8_140701A** SeqNo: **2833665** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	904.6	13	1323	0	68.4	45-110	0			
Acenaphthylene	1068	13	1323	0	80.7	45-105	0			
Anthracene	1126	13	1323	0	85.1	55-105	0			
Benzo(a)anthracene	1170	13	1323	0	88.4	50-110	0			
Benzo(a)pyrene	1275	13	1323	0	96.4	50-110	0			
Benzo(b)fluoranthene	1212	13	1323	0	91.6	45-115	0			
Benzo(g,h,i)perylene	1102	13	1323	0	83.3	40-125	0			
Benzo(k)fluoranthene	1105	13	1323	0	83.5	45-115	0			
Chrysene	1088	13	1323	0	82.2	55-110	0			
Dibenzo(a,h)anthracene	1277	13	1323	0	96.5	40-125	0			
Fluoranthene	1169	13	1323	0	88.4	55-115	0			
Fluorene	1011	13	1323	0	76.4	50-110	0			
Indeno(1,2,3-cd)pyrene	1383	13	1323	0	105	40-120	0			
Naphthalene	888.1	13	1323	0	67.1	40-105	0			
Pyrene	1133	13	1323	0	85.6	45-125	0			
Surr: 2-Fluorobiphenyl	*2287*	0	*3307*	0	*69.2*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3023*	0	*3307*	0	*91.4*	*25-137*	0			
Surr: Nitrobenzene-d5	*2453*	0	*3307*	0	*74.2*	*37-107*	0			

MSD Sample ID: **1407016-02B MSD** Units: **µg/Kg** Analysis Date: **7/2/2014 01:21 AM**
Client ID: Run ID: **SVMS8_140701A** SeqNo: **2833667** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	835.1	13	1295	0	64.5	45-110	904.6	7.99	30	
Acenaphthylene	980.8	13	1295	0	75.7	45-105	1068	8.51	30	
Anthracene	999.5	13	1295	0	77.2	55-105	1126	11.9	30	
Benzo(a)anthracene	1077	13	1295	0	83.1	50-110	1170	8.3	30	
Benzo(a)pyrene	1169	13	1295	0	90.2	50-110	1275	8.71	30	
Benzo(b)fluoranthene	1114	13	1295	0	86	45-115	1212	8.43	30	
Benzo(g,h,i)perylene	1016	13	1295	0	78.4	40-125	1102	8.12	30	
Benzo(k)fluoranthene	989.2	13	1295	0	76.4	45-115	1105	11.1	30	
Chrysene	1014	13	1295	0	78.3	55-110	1088	6.98	30	
Dibenzo(a,h)anthracene	1168	13	1295	0	90.2	40-125	1277	8.92	30	
Fluoranthene	1047	13	1295	0	80.9	55-115	1169	11	30	
Fluorene	918	13	1295	0	70.9	50-110	1011	9.66	30	
Indeno(1,2,3-cd)pyrene	1276	13	1295	0	98.5	40-120	1383	8.08	30	
Naphthalene	829.3	13	1295	0	64	40-105	888.1	6.85	30	
Pyrene	1041	13	1295	0	80.4	45-125	1133	8.45	30	
Surr: 2-Fluorobiphenyl	*2187*	0	*3237*	0	*67.6*	*12-100*	2287	*4.47*	*40*	
Surr: 4-Terphenyl-d14	*2822*	0	*3237*	0	*87.2*	*25-137*	3023	*6.89*	*40*	
Surr: Nitrobenzene-d5	*2319*	0	*3237*	0	*71.6*	*37-107*	2453	*5.61*	*40*	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60218** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch: 1407015-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60207** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: **MBLK-60207-60207** Units: **µg/Kg** Analysis Date: **7/1/2014 02:41 PM**
Client ID: Run ID: **VMS5_140701A** SeqNo: **2832791** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*1041*	0	*1000*	0	*104*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*967.5*	0	*1000*	0	*96.8*	*70-130*	0			
Surr: Dibromofluoromethane	*1010*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*953*	0	*1000*	0	*95.3*	*70-130*	0			

LCS Sample ID: **LCS-60207-60207** Units: **µg/Kg** Analysis Date: **7/1/2014 12:43 PM**
Client ID: Run ID: **VMS5_140701A** SeqNo: **2832790** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	911.5	30	1000	0	91.2	75-125	0			
Ethylbenzene	919.5	30	1000	0	92	75-125	0			
m,p-Xylene	1848	60	2000	0	92.4	80-125	0			
o-Xylene	911	30	1000	0	91.1	75-125	0			
Toluene	935	30	1000	0	93.5	70-125	0			
Xylenes, Total	2759	90	3000	0	92	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1008*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*997.5*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: Dibromofluoromethane	*996*	0	*1000*	0	*99.6*	*70-130*	0			
Surr: Toluene-d8	*968*	0	*1000*	0	*96.8*	*70-130*	0			

MS Sample ID: **1407001-03A MS** Units: **µg/Kg** Analysis Date: **7/2/2014 01:00 PM**
Client ID: Run ID: **VMS6_140701B** SeqNo: **2833681** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	883.5	30	1000	0	88.4	75-125	0			
Ethylbenzene	826.5	30	1000	0	82.6	75-125	0			
m,p-Xylene	1682	60	2000	0	84.1	80-125	0			
o-Xylene	850	30	1000	0	85	75-125	0			
Toluene	820	30	1000	0	82	70-125	0			
Xylenes, Total	2532	90	3000	0	84.4	75-125	0			
Surr: 1,2-Dichloroethane-d4	*904*	0	*1000*	0	*90.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*997.5*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: Dibromofluoromethane	*987.5*	0	*1000*	0	*98.8*	*70-130*	0			
Surr: Toluene-d8	*966*	0	*1000*	0	*96.6*	*70-130*	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60207** Instrument ID **VMS5** Method: **SW8260B**

MSD Sample ID: **1407001-03A MSD** Units: **µg/Kg** Analysis Date: **7/2/2014 01:26 PM**

Client ID: Run ID: **VMS6_140701B** SeqNo: **2833682** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	810	30	1000	0	81	75-125	883.5	8.68	30	
Ethylbenzene	763.5	30	1000	0	76.4	75-125	826.5	7.92	30	
m,p-Xylene	1568	60	2000	0	78.4	80-125	1682	6.95	30	S
o-Xylene	804.5	30	1000	0	80.4	75-125	850	5.5	30	
Toluene	770.5	30	1000	0	77	70-125	820	6.22	30	
Xylenes, Total	2373	90	3000	0	79.1	75-125	2532	6.46	30	
Surr: 1,2-Dichloroethane-d4	*906.5*	0	*1000*	0	*90.6*	*70-130*	904	*0.276*	*30*	
Surr: 4-Bromofluorobenzene	*1007*	0	*1000*	0	*101*	*70-130*	997.5	*0.948*	*30*	
Surr: Dibromofluoromethane	*968.5*	0	*1000*	0	*96.8*	*70-130*	987.5	*1.94*	*30*	
Surr: Toluene-d8	*958*	0	*1000*	0	*95.8*	*70-130*	966	*0.832*	*30*	

The following samples were analyzed in this batch: 1407015-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60231** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-60231-60231** Units: **mg/Kg** Analysis Date: **7/2/2014 01:00 PM**
Client ID: Run ID: **WETCHEM_140702C** SeqNo: **2833536** Prep Date: **7/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.49								

LCS Sample ID: **LCS-60231-60231** Units: **mg/Kg** Analysis Date: **7/2/2014 01:00 PM**
Client ID: Run ID: **WETCHEM_140702C** SeqNo: **2833537** Prep Date: **7/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.872	0.49	1.946	0	96.2	80-120	0			

MS Sample ID: **1407015-01BMS** Units: **mg/Kg** Analysis Date: **7/2/2014 01:00 PM**
Client ID: **NR 23-3 Cuttings** Run ID: **WETCHEM_140702C** SeqNo: **2833540** Prep Date: **7/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.016	0.49	1.976	0.03125	49.8	75-125	0			S

MS Sample ID: **1407015-01BMSI** Units: **mg/Kg** Analysis Date: **7/2/2014 01:00 PM**
Client ID: **NR 23-3 Cuttings** Run ID: **WETCHEM_140702C** SeqNo: **2833542** Prep Date: **7/2/2014** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1168	49	1242	0.03125	94	75-125	0			

MSD Sample ID: **1407015-01BMSD** Units: **mg/Kg** Analysis Date: **7/2/2014 01:00 PM**
Client ID: **NR 23-3 Cuttings** Run ID: **WETCHEM_140702C** SeqNo: **2833541** Prep Date: **7/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.157	0.49	1.969	0.03125	57.2	75-125	1.016	13	20	S

The following samples were analyzed in this batch: 1407015-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60232** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **1407085-01A DUP** Units: **mmhos/cm @25°** Analysis Date: **7/3/2014 01:15 PM**

Client ID: Run ID: **WETCHEM_140703C** SeqNo: **2835893** Prep Date: **7/3/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	13	0.050	0	0	0		12.77	1.79	50	

The following samples were analyzed in this batch: 1407015-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **60262** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-60262-60262** Units: **s.u.** Analysis Date: **7/2/2014 04:19 PM**
Client ID: Run ID: **WETCHEM_140702J** SeqNo: **2833896** Prep Date: **7/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.99	0	4	0	99.8	90-110	0			

DUP Sample ID: **14061537-03A DUP** Units: **s.u.** Analysis Date: **7/2/2014 04:19 PM**
Client ID: Run ID: **WETCHEM_140702J** SeqNo: **2833902** Prep Date: **7/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.03	0	0	0	0	0-0	8.05	0.249	20	

DUP Sample ID: **1407016-02B DUP** Units: **s.u.** Analysis Date: **7/2/2014 04:19 PM**
Client ID: Run ID: **WETCHEM_140702J** SeqNo: **2833909** Prep Date: **7/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.47	0	0	0	0	0-0	8.48	0.118	20	

The following samples were analyzed in this batch: 1407015-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407015
Project: WPX NR 23-3 Cuttings 6.30.14

QC BATCH REPORT

Batch ID: **R143748** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R143748** Units: **% of sample** Analysis Date: **7/1/2014 03:06 PM**
Client ID: Run ID: **MOIST_140701B** SeqNo: **2833445** 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-R143748** Units: **% of sample** Analysis Date: **7/1/2014 03:06 PM**
Client ID: Run ID: **MOIST_140701B** SeqNo: **2833444** 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: **1407014-01B DUP** Units: **% of sample** Analysis Date: **7/1/2014 03:06 PM**
Client ID: Run ID: **MOIST_140701B** SeqNo: **2833435** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.92	0.050	0	0	0	0-0	11.26	12.7	20	

DUP Sample ID: **1407017-02A DUP** Units: **% of sample** Analysis Date: **7/1/2014 03:06 PM**
Client ID: Run ID: **MOIST_140701B** SeqNo: **2833443** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.42	0.050	0	0	0	0-0	0.43	2.35	20	

The following samples were analyzed in this batch: 1407015-01B

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

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #	1407015				
PAGE	1 of 1				
DISPOSAL	By Lab or Return to Client				

PROJECT NAME	WPX NR 23-3 cuttings	SAMPLER	Reed Wold	DATE	6/30/14
PROJECT No.		SITE ID	NR 23-3	TURNAROUND	24 HR
		EDD FORMAT			
		PURCHASE ORDER			
COMPANY NAME	HRL Compliance	BILL TO COMPANY	WPX		
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	Karolina Blaney		
ADDRESS	2385 F 1/2 Rd	ADDRESS	1058 Co Rd 215		
CITY / STATE / ZIP	Grand Junction, CO 81506	CITY / STATE / ZIP	Parachute CO 81635		
PHONE	970-243-3271	PHONE	970-683-2295		
FAX	970-243-3280	FAX			
E-MAIL	mmumby@hrlcomp.com rwold@hrlcomp.com	E-MAIL	Karolina.blaney@wpxenergy.com		

BTEX/Lab
DRO/PAH/Metals
SAR/EC/pH

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC				
1	NR 23-3 cuttings	So	6/3/14	11:40	3	8		X	X	X	

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

For metals or anions, please detail analytes below.

Comments: 3.2°C

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	Reed Wold	Reed Wold	6/30/14	2:50
RECEIVED BY			6-30	2150
RELINQUISHED BY				
RECEIVED BY	Diane F. Shaw	Diane F. Shaw	7/1/14	0930
RELINQUISHED BY				
RECEIVED BY				

From: (970) 285-6793
Nick Martinez
ALS Environmental
127 E 1st Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

E

BILL SENDER

ShipDate: 30JUN14
ActWgt: 70.0 LB
CAD:
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code

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

HOLLAND, MI 49424

Ref # 063014-1
Invoice #
PO # Parachute
Dept #

TUE - 01 JUL 10:30A
PRIORITY OVERNIGHT

2 of 3

MPS# 7704 6966 7576
Mstr# 7704 6966 7440 0201

49424
MI-US
GRR

XX GRRA

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.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
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ALS Parachute Custody Seal
DATE 6-30 Time 1700
Name [signature]

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **01-Jul-14 09:30**

Work Order: **1407015** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 01-Jul-14 (Date) Reviewed by: Ann Preston (eSignature) 02-Jul-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):	3.2 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/1/2014 10:22:39 AM		
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:

14-Jun-2012

Mark Mumby
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **WPX NR 23-3 Well Blowout 6/1/12** Work Order: **1206211**

Dear Mark,

ALS Environmental received 6 samples on 07-Jun-2012 10:30 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.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 32.

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: MN331938

ALS Group USA, Corp

Date: 14-Jun-12

Client: HRL Compliance Solutions
Project: WPX NR 23-3 Well Blowout 6/1/12
Work Order: **1206211**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1206211-01	NR 23-3 Middle Sediment Trap	Soil		6/1/2012 13:00	6/7/2012 10:30	☐
1206211-02	NR 23-3 Large Pond	Soil		6/1/2012 13:15	6/7/2012 10:30	☐
1206211-03	NR 23-3 Pt Left Pad	Soil		6/1/2012 13:20	6/7/2012 10:30	☐
1206211-04	NR 23-3 BKGD 1	Soil		6/1/2012 13:30	6/7/2012 10:30	☐
1206211-05	NR 23-3 BKGD 2	Soil		6/1/2012 13:35	6/7/2012 10:30	☐
1206211-06	NR 23-3 BKGD 3	Soil		6/1/2012 13:40	6/7/2012 10:30	☐

ALS Group USA, Corp

Date: *14-Jun-12*

Client: HRL Compliance Solutions
Project: WPX NR 23-3 Well Blowout 6/1/12 **Work Order:** 1206211
Sample ID: NR 23-3 BKGD 1 **Lab ID:** 1206211-04
Collection Date: 6/1/2012 01:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **6/11/2012**	Analyst: **ML**
Arsenic	**4.5**		**0.69**	**mg/Kg-dry**	2	6/12/2012 06:20 PM
MOISTURE			**A2540 G**			Analyst: **CG**
Moisture	**1.1**		**0.050**	**% of sample**	1	6/7/2012 02:47 PM

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

ALS Group USA, Corp

Date: *14-Jun-12*

Client: HRL Compliance Solutions
Project: WPX NR 23-3 Well Blowout 6/1/12 **Work Order:** 1206211
Sample ID: NR 23-3 BKGD 2 **Lab ID:** 1206211-05
Collection Date: 6/1/2012 01:35 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **6/11/2012**	Analyst: **ML**
Arsenic	**3.7**		**0.64**	**mg/Kg-dry**	2	6/12/2012 05:49 PM
MOISTURE			**A2540 G**			Analyst: **CG**
Moisture	**1.4**		**0.050**	**% of sample**	1	6/7/2012 02:47 PM

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

ALS Group USA, Corp

Date: *14-Jun-12*

Client: HRL Compliance Solutions
Project: WPX NR 23-3 Well Blowout 6/1/12 **Work Order:** 1206211
Sample ID: NR 23-3 BKGD 3 **Lab ID:** 1206211-06
Collection Date: 6/1/2012 01:40 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **6/14/2012**	Analyst: **RH**
Arsenic	**3.6**		**0.71**	**mg/Kg-dry**	2	6/14/2012 12:49 PM
SUBCONTRACTED ANALYSES			**SUBCONTRACT**			Analyst: **A&LGL**
Subcontracted Analyses	**Rcvd 6/12/12**			**as noted**	1	6/12/2012
MOISTURE			**A2540 G**			Analyst: **CG**
Moisture	**0.71**		**0.050**	**% of sample**	1	6/7/2012 02:47 PM
PH			**SW9045D**			Analyst: **KV**
pH	**6.98**	H		**s.u.**	1	6/7/2012 06:30 PM

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

ALS Group USA, Corp

Date: 14-Jun-12

Client: HRL Compliance Solutions

Work Order: 1206211

Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41545** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-41545-41545** Units: **mg/Kg** Analysis Date: **6/12/2012 06:30 PM**

Client ID: Run ID: **GC8_120612A** SeqNo: **1997997** Prep Date: **6/11/2012** 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								
ORO (C28-C40)	ND	4.2								
Surr: 4-Terphenyl-d14	*1.778*	0	*1.667*	0	*107*	*39-115*	0			

LCS Sample ID: **DLCSS1-41545-41545** Units: **mg/Kg** Analysis Date: **6/12/2012 06:30 PM**

Client ID: Run ID: **GC8_120612A** SeqNo: **1998019** Prep Date: **6/11/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	109.2	4.2	166.7	0	65.5	60-130	0			
ORO (C28-C40)	146.4	4.2	166.7	0	87.8	60-130	0			
Surr: 4-Terphenyl-d14	*0.719*	0	*1.667*	0	*43.1*	*39-115*	0			

MS Sample ID: **1206191-01B MS** Units: **mg/Kg** Analysis Date: **6/12/2012 06:56 PM**

Client ID: Run ID: **GC8_120612A** SeqNo: **1998021** Prep Date: **6/11/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	217.4	8.1	324.9	3.319	65.9	60-130	0			
ORO (C28-C40)	305.7	8.1	324.9	4360	-1250	60-130	0			SO
Surr: 4-Terphenyl-d14	*1.777*	0	*3.249*	0	*54.7*	*39-115*	0			

MSD Sample ID: **1206191-01B MSD** Units: **mg/Kg** Analysis Date: **6/12/2012 06:56 PM**

Client ID: Run ID: **GC8_120612A** SeqNo: **1997998** Prep Date: **6/11/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	215.7	8.2	329.7	3.319	64.4	60-130	217.4	0.771	30	
ORO (C28-C40)	434.6	8.2	329.7	4360	-1190	60-130	305.7	34.8	30	SRO
Surr: 4-Terphenyl-d14	*3.495*	0	*3.297*	0	*106*	*39-115*	1.777	*65.2*	*30*	*R*

The following samples were analyzed in this batch: 1206211-01A 1206211-02A 1206211-03A

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **R105864** Instrument ID **GC10** Method: **SW8015**

MBLK Sample ID: **MB-R105864-R105864** Units: **µg/L** Analysis Date: **6/12/2012 02:48 PM**
Client ID: Run ID: **GC10_120612A** SeqNo: **1996867** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
Surr: Toluene-d8	*107*	0	*100*	0	*107*	*70-130*	0			

LCS Sample ID: **LCS-R105864-R105864** Units: **µg/L** Analysis Date: **6/12/2012 02:22 PM**
Client ID: Run ID: **GC10_120612A** SeqNo: **1996868** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	23860	200	25000	0	95.4	70-130	0			
Surr: Toluene-d8	*91.08*	0	*100*	0	*91.1*	*70-130*	0			

MS Sample ID: **1206251-01A MS** Units: **µg/Kg** Analysis Date: **6/12/2012 11:50 PM**
Client ID: Run ID: **GC10_120612A** SeqNo: **1997936** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1592000	2,500	1250000	40830	124	70-130	0			
Surr: Toluene-d8	*4973*	0	*5000*	0	*99.5*	*50-150*	0			

MSD Sample ID: **1206251-01A MSD** Units: **µg/Kg** Analysis Date: **6/13/2012 12:15 PM**
Client ID: Run ID: **GC10_120612A** SeqNo: **1997937** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1604000	2,500	1250000	40830	125	70-130	1592000	0.75	30	
Surr: Toluene-d8	*5144*	0	*5000*	0	*103*	*50-150*	4973	*3.39*	*30*	

The following samples were analyzed in this batch: 1206211-01B 1206211-02B 1206211-03B

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41555** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-41555-41555** Units: **mg/Kg** Analysis Date: **6/12/2012 02:41 PM**
Client ID: Run ID: **HG1_120612A** SeqNo: **1996779** Prep Date: **6/12/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.003417	0.020								J

LCS Sample ID: **LCS-41555-41555** Units: **mg/Kg** Analysis Date: **6/13/2012 10:30 AM**
Client ID: Run ID: **HG1_120613A** SeqNo: **1997519** Prep Date: **6/12/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1829	0.020	0.1665	0	110	80-120	0			

MS Sample ID: **1206197-03AMS** Units: **mg/Kg** Analysis Date: **6/13/2012 01:16 PM**
Client ID: Run ID: **HG1_120613A** SeqNo: **1998036** Prep Date: **6/12/2012** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.4068	0.034	0.1417	0.2639	101	75-125	0			

MSD Sample ID: **1206197-03AMSD** Units: **mg/Kg** Analysis Date: **6/13/2012 01:19 PM**
Client ID: Run ID: **HG1_120613A** SeqNo: **1998039** Prep Date: **6/12/2012** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.3857	0.034	0.1405	0.2639	86.7	75-125	0.4068	5.34	35	

The following samples were analyzed in this batch: 1206211-01A 1206211-02A 1206211-03A

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41553** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-41553-41553** Units: **mg/Kg** Analysis Date: **6/12/2012 12:53 PM**
Client ID: Run ID: **ICPMS1_120612A** SeqNo: **1996472** Prep Date: **6/11/2012** 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	0.1008	0.25								J
Cadmium	ND	0.10								
Chromium	0.01593	0.25								J
Copper	0.01639	0.25								J
Lead	0.01081	0.25								J
Nickel	ND	0.25								
Selenium	0.02008	0.25								J
Silver	ND	0.25								
Zinc	0.0774	0.50								J

LCS Sample ID: **LCS-41553-41553** Units: **mg/Kg** Analysis Date: **6/12/2012 12:59 PM**
Client ID: Run ID: **ICPMS1_120612A** SeqNo: **1996473** Prep Date: **6/11/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.65	0.25	5	0	93	80-120	0			
Barium	5.035	0.25	5	0	101	80-120	0			
Cadmium	5.075	0.10	5	0	102	80-120	0			
Chromium	4.899	0.25	5	0	98	80-120	0			
Copper	4.834	0.25	5	0	96.7	80-120	0			
Lead	4.98	0.25	5	0	99.6	80-120	0			
Nickel	4.812	0.25	5	0	96.2	80-120	0			
Selenium	4.344	0.25	5	0	86.9	80-120	0			
Silver	4.826	0.25	5	0	96.5	80-120	0			
Zinc	4.56	0.50	5	0	91.2	80-120	0			

MS Sample ID: **1206211-04AMS** Units: **mg/Kg** Analysis Date: **6/12/2012 06:33 PM**
Client ID: **NR 23-3 BKGD 1** Run ID: **ICPMS1_120612A** SeqNo: **1997194** Prep Date: **6/11/2012** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.63	0.65	6.536	4.468	79	80-120	0			S
Barium	107.5	0.65	6.536	100.6	106	80-120	0			O
Cadmium	6.667	0.26	6.536	0.7008	91.3	80-120	0			
Chromium	16.63	0.65	6.536	12.26	66.8	80-120	0			S
Copper	16.37	0.65	6.536	11.71	71.3	80-120	0			S
Lead	17.16	0.65	6.536	11.43	87.7	80-120	0			
Nickel	17.07	0.65	6.536	12.64	67.8	80-120	0			S
Selenium	6.089	0.65	6.536	0.9851	78.1	80-120	0			S
Silver	5.327	0.65	6.536	0.05294	80.7	80-120	0			
Zinc	49.12	1.3	6.536	45.31	58.4	80-120	0			SO

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41553** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1206211-04AMSD** Units: **mg/Kg** Analysis Date: **6/12/2012 06:39 PM**
Client ID: **NR 23-3 BKGD 1** Run ID: **ICPMS1_120612A** SeqNo: **1997195** Prep Date: **6/11/2012** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.62	0.67	6.702	4.468	91.8	80-120	9.63	9.78	25	
Barium	107.9	0.67	6.702	100.6	109	80-120	107.5	0.388	25	O
Cadmium	7.444	0.27	6.702	0.7008	101	80-120	6.667	11	25	
Chromium	17.77	0.67	6.702	12.26	82.3	80-120	16.63	6.67	25	
Copper	17.36	0.67	6.702	11.71	84.4	80-120	16.37	5.89	25	
Lead	18.36	0.67	6.702	11.43	103	80-120	17.16	6.76	25	
Nickel	18.23	0.67	6.702	12.64	83.4	80-120	17.07	6.56	25	
Selenium	6.519	0.67	6.702	0.9851	82.6	80-120	6.089	6.82	25	
Silver	5.881	0.67	6.702	0.05294	87	80-120	5.327	9.88	25	
Zinc	51.13	1.3	6.702	45.31	86.8	80-120	49.12	3.99	25	O

The following samples were analyzed in this batch: 1206211-01A 1206211-02A 1206211-03A 1206211-04A 1206211-05A

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41619** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK Sample ID: **MBLK-41619-41619** Units: **mg/Kg** Analysis Date: **6/14/2012 12:38 PM**
Client ID: Run ID: **ICPMS2_120614A** SeqNo: **1999431** Prep Date: **6/14/2012** 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-41619-41619** Units: **mg/Kg** Analysis Date: **6/14/2012 12:44 PM**
Client ID: Run ID: **ICPMS2_120614A** SeqNo: **1999432** Prep Date: **6/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.526	0.25	5	0	90.5	80-120	0			

MS Sample ID: **1206211-06AMS** Units: **mg/Kg** Analysis Date: **6/14/2012 12:59 PM**
Client ID: **NR 23-3 BKGD 3** Run ID: **ICPMS2_120614A** SeqNo: **1999435** Prep Date: **6/14/2012** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.175	0.71	7.102	3.542	79.3	80-120	0			S

MSD Sample ID: **1206211-06AMSD** Units: **mg/Kg** Analysis Date: **6/14/2012 01:04 PM**
Client ID: **NR 23-3 BKGD 3** Run ID: **ICPMS2_120614A** SeqNo: **1999436** Prep Date: **6/14/2012** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.14	0.69	6.878	3.542	81.4	80-120	9.175	0.376	25	

The following samples were analyzed in this batch: 1206211-06A

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41544** Instrument ID **SVMS7** Method: **SW8270**

MBLK Sample ID: **SBLKS1-41544-41544** Units: **µg/Kg** Analysis Date: **6/11/2012 06:02 PM**
Client ID: Run ID: **SVMS7_120611A** SeqNo: **1996574** Prep Date: **6/11/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
Surr: 2-Fluorobiphenyl	*1009*	0	*1667*	0	*60.6*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1496*	0	*1667*	0	*89.7*	*25-137*	0			
Surr: Nitrobenzene-d5	*1231*	0	*1667*	0	*73.9*	*37-107*	0			

LCS Sample ID: **SLCSS1-41544-41544** Units: **µg/Kg** Analysis Date: **6/11/2012 06:32 PM**
Client ID: Run ID: **SVMS7_120611A** SeqNo: **1996575** Prep Date: **6/11/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	550.7	30	666.7	0	82.6	45-110	0			
Anthracene	579	30	666.7	0	86.8	55-105	0			
Benzo(a)anthracene	575	30	666.7	0	86.2	50-110	0			
Benzo(a)pyrene	582	30	666.7	0	87.3	50-110	0			
Benzo(b)fluoranthene	582	30	666.7	0	87.3	45-115	0			
Benzo(g,h,i)perylene	605.3	30	666.7	0	90.8	40-125	0			
Benzo(k)fluoranthene	620.7	30	666.7	0	93.1	45-115	0			
Chrysene	598	30	666.7	0	89.7	55-110	0			
Dibenzo(a,h)anthracene	575.7	30	666.7	0	86.3	40-125	0			
Fluoranthene	630.7	30	666.7	0	94.6	55-115	0			
Fluorene	582	30	666.7	0	87.3	50-110	0			
Indeno(1,2,3-cd)pyrene	579	30	666.7	0	86.8	40-120	0			
Naphthalene	551.3	30	666.7	0	82.7	40-105	0			
Pyrene	624	30	666.7	0	93.6	45-125	0			
Surr: 2-Fluorobiphenyl	*1025*	0	*1667*	0	*61.5*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1489*	0	*1667*	0	*89.3*	*25-137*	0			
Surr: Nitrobenzene-d5	*1211*	0	*1667*	0	*72.7*	*37-107*	0			

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41544** Instrument ID **SVMS7** Method: **SW8270**

MS Sample ID: **1206191-01B MS** Units: **µg/Kg** Analysis Date: **6/11/2012 07:02 PM**
Client ID: Run ID: **SVMS7_120611A** SeqNo: **1996576** Prep Date: **6/11/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1138	57	1268	0	89.7	45-110	0			
Anthracene	1222	57	1268	0	96.3	55-105	0			
Benzo(a)anthracene	1202	57	1268	0	94.8	50-110	0			
Benzo(a)pyrene	1243	57	1268	0	98	50-110	0			
Benzo(b)fluoranthene	1260	57	1268	0	99.4	45-115	0			
Benzo(g,h,i)perylene	1297	57	1268	0	102	40-125	0			
Benzo(k)fluoranthene	1229	57	1268	0	96.9	45-115	0			
Chrysene	1226	57	1268	0	96.7	55-110	0			
Dibenzo(a,h)anthracene	1210	57	1268	0	95.4	40-125	0			
Fluoranthene	1276	57	1268	0	101	55-115	0			
Fluorene	1229	57	1268	0	96.9	50-110	0			
Indeno(1,2,3-cd)pyrene	1232	57	1268	0	97.1	40-120	0			
Naphthalene	1081	57	1268	0	85.2	40-105	0			
Pyrene	1279	57	1268	0	101	45-125	0			
Surr: 2-Fluorobiphenyl	*1883*	0	*3170*	0	*59.4*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3004*	0	*3170*	0	*94.8*	*25-137*	0			
Surr: Nitrobenzene-d5	*2266*	0	*3170*	0	*71.5*	*37-107*	0			

MSD Sample ID: **1206191-01B MSD** Units: **µg/Kg** Analysis Date: **6/11/2012 07:32 PM**
Client ID: Run ID: **SVMS7_120611A** SeqNo: **1996577** Prep Date: **6/11/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1138	56	1250	0	91	45-110	1138	0.0468	30	
Anthracene	1218	56	1250	0	97.4	55-105	1222	0.307	30	
Benzo(a)anthracene	1183	56	1250	0	94.6	50-110	1202	1.6	30	
Benzo(a)pyrene	1230	56	1250	0	98.4	50-110	1243	1.03	30	
Benzo(b)fluoranthene	1182	56	1250	0	94.5	45-115	1260	6.39	30	
Benzo(g,h,i)perylene	1297	56	1250	0	104	40-125	1297	0.0321	30	
Benzo(k)fluoranthene	1295	56	1250	0	104	45-115	1229	5.29	30	
Chrysene	1221	56	1250	0	97.6	55-110	1226	0.414	30	
Dibenzo(a,h)anthracene	1209	56	1250	0	96.7	40-125	1210	0.0378	30	
Fluoranthene	1267	56	1250	0	101	55-115	1276	0.698	30	
Fluorene	1209	56	1250	0	96.6	50-110	1229	1.7	30	
Indeno(1,2,3-cd)pyrene	1230	56	1250	0	98.4	40-120	1232	0.113	30	
Naphthalene	1047	56	1250	0	83.7	40-105	1081	3.17	30	
Pyrene	1278	56	1250	0	102	45-125	1279	0.0616	30	
Surr: 2-Fluorobiphenyl	*1941*	0	*3126*	0	*62.1*	*12-100*	1883	*3.05*	*40*	
Surr: 4-Terphenyl-d14	*3054*	0	*3126*	0	*97.7*	*25-137*	3004	*1.66*	*40*	
Surr: Nitrobenzene-d5	*2246*	0	*3126*	0	*71.9*	*37-107*	2266	*0.861*	*40*	

The following samples were analyzed in this batch: 1206211-01A 1206211-02A 1206211-03A

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41618** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **MBLK-41618-41618** Units: **µg/Kg** Analysis Date: **6/13/2012 04:07 AM**
Client ID: Run ID: **VMS5_120612A** SeqNo: **1998192** Prep Date: **6/12/2012** 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	*1000*	0	*1000*	0	*100*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*983.5*	0	*1000*	0	*98.4*	*70-130*	0			
Surr: Dibromofluoromethane	*1013*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*1000*	0	*1000*	0	*100*	*70-130*	0			

MBLK Sample ID: **MBLK-41618-41618** Units: **µg/Kg** Analysis Date: **6/13/2012 08:00 PM**
Client ID: Run ID: **VMS8_120613A** SeqNo: **1999411** Prep Date: **6/12/2012** 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	*975.5*	0	*1000*	0	*97.6*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*986.5*	0	*1000*	0	*98.6*	*70-130*	0			
Surr: Dibromofluoromethane	*972*	0	*1000*	0	*97.2*	*70-130*	0			
Surr: Toluene-d8	*994*	0	*1000*	0	*99.4*	*70-130*	0			

LCS Sample ID: **LCS-41618-41618** Units: **µg/Kg** Analysis Date: **6/13/2012 03:17 AM**
Client ID: Run ID: **VMS5_120612A** SeqNo: **1998191** Prep Date: **6/12/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	896.5	30	1000	0	89.6	75-125	0			
Ethylbenzene	907.5	30	1000	0	90.8	75-125	0			
m,p-Xylene	1830	60	2000	0	91.5	80-125	0			
o-Xylene	903.5	30	1000	0	90.4	75-125	0			
Toluene	890.5	30	1000	0	89	70-125	0			
Xylenes, Total	2734	90	3000	0	91.1	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1020*	0	*1000*	0	*102*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*997*	0	*1000*	0	*99.7*	*70-130*	0			
Surr: Dibromofluoromethane	*1030*	0	*1000*	0	*103*	*70-130*	0			
Surr: Toluene-d8	*1008*	0	*1000*	0	*101*	*70-130*	0			

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41618** Instrument ID **VMS5** Method: **SW8260**

LCS Sample ID: **LCS-41618-41618** Units: **µg/Kg** Analysis Date: **6/13/2012 07:10 PM**
Client ID: Run ID: **VMS8_120613A** SeqNo: **1999410** Prep Date: **6/12/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	909	30	1000	0	90.9	75-125	0			
Ethylbenzene	980.5	30	1000	0	98	75-125	0			
m,p-Xylene	1920	60	2000	0	96	80-125	0			
o-Xylene	959.5	30	1000	0	96	75-125	0			
Toluene	925	30	1000	0	92.5	70-125	0			
Xylenes, Total	2880	90	3000	0	96	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1010*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*990*	0	*1000*	0	*99*	*70-130*	0			
Surr: Dibromofluoromethane	*1018*	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*998*	0	*1000*	0	*99.8*	*70-130*	0			

MS Sample ID: **1206263-07A MS** Units: **µg/Kg** Analysis Date: **6/13/2012 12:59 PM**
Client ID: Run ID: **VMS5_120612A** SeqNo: **1998231** Prep Date: **6/12/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1032	30	1000	411	62	75-125	0			S
Ethylbenzene	873.5	30	1000	18.5	85.5	75-125	0			
m,p-Xylene	1748	60	2000	86	83.1	80-125	0			
o-Xylene	874	30	1000	23.5	85	75-125	0			
Toluene	873	30	1000	159	71.4	70-125	0			
Xylenes, Total	2622	90	3000	110	83.7	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1022*	0	*1000*	0	*102*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1024*	0	*1000*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*1015*	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*954*	0	*1000*	0	*95.4*	*70-130*	0			

MSD Sample ID: **1206263-07A MSD** Units: **µg/Kg** Analysis Date: **6/13/2012 01:24 PM**
Client ID: Run ID: **VMS5_120612A** SeqNo: **1998232** Prep Date: **6/12/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	996.5	30	1000	411	58.6	75-125	1032	3.45	30	S
Ethylbenzene	845.5	30	1000	18.5	82.7	75-125	873.5	3.26	30	
m,p-Xylene	1700	60	2000	86	80.7	80-125	1748	2.78	30	
o-Xylene	837	30	1000	23.5	81.4	75-125	874	4.32	30	
Toluene	851.5	30	1000	159	69.2	70-125	873	2.49	30	S
Xylenes, Total	2537	90	3000	110	80.9	75-125	2622	3.3	30	
Surr: 1,2-Dichloroethane-d4	*1006*	0	*1000*	0	*101*	*70-130*	1022	*1.68*	*30*	
Surr: 4-Bromofluorobenzene	*1002*	0	*1000*	0	*100*	*70-130*	1024	*2.17*	*30*	
Surr: Dibromofluoromethane	*1022*	0	*1000*	0	*102*	*70-130*	1015	*0.736*	*30*	
Surr: Toluene-d8	*949.5*	0	*1000*	0	*95*	*70-130*	954	*0.473*	*30*	

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41618** Instrument ID **VMS5** Method: **SW8260**

The following samples were analyzed in this batch:	1206211-01B	1206211-02B	1206211-03B

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **41569** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-41569-41569** Units: **mg/Kg** Analysis Date: **6/11/2012 02:00 PM**
Client ID: Run ID: **WETCHEM_120611G** SeqNo: **1995493** Prep Date: **6/7/2012** 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-41569-41569** Units: **mg/Kg** Analysis Date: **6/11/2012 02:00 PM**
Client ID: Run ID: **WETCHEM_120611G** SeqNo: **1995494** Prep Date: **6/7/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.757	0.50	1.992	0	88.2	75-110	0			

MS Sample ID: **1206157-01B MS** Units: **mg/Kg** Analysis Date: **6/11/2012 02:00 PM**
Client ID: Run ID: **WETCHEM_120611G** SeqNo: **1995496** Prep Date: **6/7/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.282	0.49	1.961	0.296	50.3	60-130	0			S

MSD Sample ID: **1206157-01B MSD** Units: **mg/Kg** Analysis Date: **6/11/2012 02:00 PM**
Client ID: Run ID: **WETCHEM_120611G** SeqNo: **1995497** Prep Date: **6/7/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.091	0.49	1.969	0.296	40.4	60-130	1.282	16.2	30	S

The following samples were analyzed in this batch: 1206211-01A 1206211-02A 1206211-03A

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **R105704** Instrument ID **WETCHEM** Method: **SW9040**

LCS Sample ID: **WLCSW1-060712-R105704** Units: **s.u.** Analysis Date: **6/7/2012 06:30 PM**
Client ID: Run ID: **WETCHEM_120607L** SeqNo: **1993769** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.35	0	4.4	0	98.9	90-110	0			

LCS Sample ID: **WLCSS1-060712-R105704** Units: **s.u.** Analysis Date: **6/7/2012 06:30 PM**
Client ID: Run ID: **WETCHEM_120607L** SeqNo: **1993788** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.35	0	4.4	0	98.9	90-110	0			

DUP Sample ID: **1206208-01A DUP** Units: **s.u.** Analysis Date: **6/7/2012 06:30 PM**
Client ID: Run ID: **WETCHEM_120607L** SeqNo: **1993778** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	12.4	0	0	0	0	0-0	12.4	0	20	

DUP Sample ID: **1206216-01A DUP** Units: **s.u.** Analysis Date: **6/7/2012 06:30 PM**
Client ID: Run ID: **WETCHEM_120607L** SeqNo: **1993798** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	9.68	0	0	0	0	0-0	9.68	0	20	

The following samples were analyzed in this batch:

1206211-01A	1206211-02A	1206211-03A
1206211-06A		

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

Client: HRL Compliance Solutions
Work Order: 1206211
Project: WPX NR 23-3 Well Blowout 6/1/12

QC BATCH REPORT

Batch ID: **R105724** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R105724** Units: **% of sample** Analysis Date: **6/7/2012 02:47 PM**
Client ID: Run ID: **MOIST_120607A** SeqNo: **1994144** 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-R105724** Units: **% of sample** Analysis Date: **6/7/2012 02:47 PM**
Client ID: Run ID: **MOIST_120607A** SeqNo: **1994143** 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: **1206191-02ADUP** Units: **% of sample** Analysis Date: **6/7/2012 02:47 PM**
Client ID: Run ID: **MOIST_120607A** SeqNo: **1994123** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	1.65	0.050	0	0	0	0-0	1.69	2.4	20	

DUP Sample ID: **1206197-03ADUP** Units: **% of sample** Analysis Date: **6/7/2012 02:47 PM**
Client ID: Run ID: **MOIST_120607A** SeqNo: **1994131** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.88	0.050	0	0	0	0-0	11.87	0.0842	20	

The following samples were analyzed in this batch:

1206211-01A	1206211-02A	1206211-03A
1206211-04A	1206211-05A	1206211-06A

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

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1206211

PAGE 1 of 1

DISPOSAL By Lab or Return to Client

SAMPLER	Reed Wold	DATE	6/6/2012
PROJECT NAME	WPXNR 23-33 Well Blowout	SITE ID	NR 23-33
PROJECT No.		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	HRL Compliance	BILL TO COMPANY	WPX
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	Karolina Blaney
ADDRESS	744 Horizon Ct Ste. 140	ADDRESS	1058 Co Rd 215
CITY / STATE / ZIP	Grand Junction, CO 81506	CITY / STATE / ZIP	Parachure CO 81635
PHONE	970-243-3271	PHONE	970-683-2295
FAX	970-243-3280	FAX	
E-MAIL	mmumby@hrlcomp.com	E-MAIL	Karolina.blaney@wpxenergy.com

TURNAROUND: 5 day

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX/ GRO	DRO/ PAH/ Metals (table 910-1)	SAR/ Ec/ pH	Arsenic
01	NR 23-33 Middle Sediment Trap	SO	6/1/2012	1:00	3	8		X	X	X	
02	NR 23-33 Large Pond	SO	6/1/2012	1:15	3	8		X	X	X	
03	NR 23-3 Pt Left Pad	SO	6/1/2012	1:20	3	8		X	X	X	
04	NR 23-3 BKGD 1	SO	6/1/2012	1:30	1	8					X
05	NR 23-3 BKGD 2	SO	6/1/2012	1:35	1	8					X
06	NR 23-3 BKGD 3	SO	6/1/2012	1:40	2	8				X	X

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

For metals or anions, please detail analytes below.

Comments: 5.6°C

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	Reed Wold	Reed Wold	6/6/12	5:00
RECEIVED BY	Jessica Bacon	S. Bacon	6/7/12	1030
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental

Subcontractor:
A & L Great Lakes Agricultural La
3505 Conestoga Dr
Ft. Wayne, IN 46808
TEL: (260) 483-4759
FAX: (260) 483-5274
Acct #: 91000

Salesperson **Bruce Schlatter**

CHAIN-OF-CUSTODY RECORD

Date: 07-Jun-12
COC ID: 3689
Due D 13-Jun-12

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	1206211	A Subcontracted Analyses (SUBCONTRACT) SAR-EC
Work Order		Project Number		B
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D
Address	3352 128th Avenue	Address	3352 128th Avenue	E
				F
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G
Phone	(616) 399-6070	Phone	(616) 399-6070	H
Fax	(616) 399-6185	Fax	(616) 399-6185	I
eMail Address	ann.preston@alsglobal.com	eMail CC		J

ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J
1206211-01C	NR 23-33 Middle Sediment Trap	Soil	1/Jun/2012 13:00	(1) MISC	X									
1206211-02C	NR 23-33 Large Pond	Soil	1/Jun/2012 13:15	(1) MISC	X									
1206211-03C	NR 23-3 Pt Left Pad	Soil	1/Jun/2012 13:20	(1) MISC	X									
1206211-06B	NR 23-3 BKGD 3	Soil	1/Jun/2012 13:40	(1) MISC	X									

Comments:
Please analyze for SAR-EC. Email results to Ann Preston.

Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
[signature]	6/7/12	[signature]			Std
Relinquished by:	Date/Time	Received by:	Date/Time		

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **07-Jun-12 10:30**

Work Order: **1206211** Received by: **JB**

Checklist completed by Jessica Bacon (eSignature) 07-Jun-12 (Date) Reviewed by: Ann Preston (eSignature) 07-Jun-12 (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 ☐	
Temperature(s)/Thermometer(s):	5.6 C		
Cooler(s)/Kit(s):			
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:

5.6°C

CUSTODY SEAL

DATE 6/16/12

SIGNATURE Reed Wall

QEC
Quality Environmental Containers
800-256-8980 • 304-255-8800

NEW Package US Airbill

FedEx Tracking Number 8008 9259 8800

0200

FedEx Retrieval Copy

Form

1 From

Date 6/16/12

Sender's Name Reed Wall Phone 970 243 3271

Company HCSI

Address 744 Horizon ct Ste 140 Dept/Floor/Suite/Room

City Grand Junction State CO ZIP 81506

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone 616 399 6670

Company ALS Group

Address 3352 128th Ave Dept/Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

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

City Holland State MI ZIP 49424

01 ☐ HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express or Ground Service * To most locations.
NOTE: Service has changed. Please select carefully.

Packages up to 150 lbs.
Or packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

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

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

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

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☑ Other

6 Special Handling and Delivery Signature Options

03 ☐ SATURDAY DELIVERY

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

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

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

Does this shipment contain dangerous goods?
One box must be checked.

☑ No 04 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 06 ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☑ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages 2 Total Weight 9 lbs.

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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02-Jul-2014

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

Re: **WPX NR 23-3 Backgrounds 6.30.14** Work Order: **1407017**

Dear Mark,

ALS Environmental received 2 samples on 01-Jul-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,

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-Jul-14

Client: HRL Compliance Solutions, Inc
Project: WPX NR 23-3 Backgrounds 6.30.14
Work Order: **1407017**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1407017-01	BKGD 4	Soil		6/30/2014 12:35	7/1/2014 09:30	☐
1407017-02	BKGD 5	Soil		6/30/2014 12:40	7/1/2014 09:30	☐

ALS Group USA, Corp

Date: 02-Jul-14

Client: HRL Compliance Solutions, Inc
Project: WPX NR 23-3 Backgrounds 6.30.14
Work Order: 1407017

Case Narrative

Batch 60213 sample BKGD 5 MS/MSD recoveries for Arsenic were below control limits. The corresponding result in the parent sample may be biased low for Arsenic.

ALS Group USA, Corp

Date: 02-Jul-14

Client: HRL Compliance Solutions, Inc
Project: WPX NR 23-3 Backgrounds 6.30.14
WorkOrder: **1407017**

QUALIFIERS, ACRONYMS, UNITS

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

ALS Group USA, Corp

Date: *02-Jul-14*

Client: HRL Compliance Solutions, Inc
Project: WPX NR 23-3 Backgrounds 6.30.14 **Work Order:** 1407017
Sample ID: BKGD 4 **Lab ID:** 1407017-01
Collection Date: 6/30/2014 12:35 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 7/1/14	Analyst: **ML**
Arsenic	**2.8**		**1.6**	**mg/Kg-dry**	5	7/2/2014 04:42 AM
MOISTURE			**A2540 G**			Analyst: **TM**
Moisture	ND		0.050	% of sample	1	7/1/2014 03:06 PM

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

ALS Group USA, Corp

Date: *02-Jul-14*

Client: HRL Compliance Solutions, Inc
Project: WPX NR 23-3 Backgrounds 6.30.14 **Work Order:** 1407017
Sample ID: BKGD 5 **Lab ID:** 1407017-02
Collection Date: 6/30/2014 12:40 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 7/1/14	Analyst: **ML**
Arsenic	**5.2**		**1.7**	**mg/Kg-dry**	5	7/2/2014 04:48 AM
MOISTURE			**A2540 G**			Analyst: **TM**
Moisture	**0.43**		**0.050**	**% of sample**	1	7/1/2014 03:06 PM

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

ALS Group USA, Corp

Date: 02-Jul-14

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1407017

Project: WPX NR 23-3 Backgrounds 6.30.14

Batch ID: **60213** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-60213-60213** Units: **mg/Kg** Analysis Date: **7/2/2014 01:57 AM**

Client ID: Run ID: **ICPMS1_140701A** SeqNo: **2832165** Prep Date: **7/1/2014** DF: **1**

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

LCS Sample ID: **LCS-60213-60213** Units: **mg/Kg** Analysis Date: **7/2/2014 02:03 AM**

Client ID: Run ID: **ICPMS1_140701A** SeqNo: **2832167** Prep Date: **7/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.898	0.25	5	0	98	80-120	0			

MS Sample ID: **1407017-02AMS** Units: **mg/Kg** Analysis Date: **7/2/2014 04:54 AM**

Client ID: **BKGD 5** Run ID: **ICPMS1_140701A** SeqNo: **2832234** Prep Date: **7/1/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.605	1.7	6.812	5.188	64.8	75-125	0			S

MSD Sample ID: **1407017-02AMSD** Units: **mg/Kg** Analysis Date: **7/2/2014 05:01 AM**

Client ID: **BKGD 5** Run ID: **ICPMS1_140701A** SeqNo: **2832238** Prep Date: **7/1/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.441	1.7	6.775	5.188	62.8	75-125	9.605	1.72	25	S

The following samples were analyzed in this batch: 1407017-01A 1407017-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407017
Project: WPX NR 23-3 Backgrounds 6.30.14

QC BATCH REPORT

Batch ID: **R143748** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R143748** Units: **% of sample** Analysis Date: **7/1/2014 03:06 PM**
Client ID: Run ID: **MOIST_140701B** SeqNo: **2833445** 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-R143748** Units: **% of sample** Analysis Date: **7/1/2014 03:06 PM**
Client ID: Run ID: **MOIST_140701B** SeqNo: **2833444** 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: **1407014-01B DUP** Units: **% of sample** Analysis Date: **7/1/2014 03:06 PM**
Client ID: Run ID: **MOIST_140701B** SeqNo: **2833435** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.92	0.050	0	0	0	0-0	11.26	12.7	20	

DUP Sample ID: **1407017-02A DUP** Units: **% of sample** Analysis Date: **7/1/2014 03:06 PM**
Client ID: **BKGD 5** Run ID: **MOIST_140701B** SeqNo: **2833443** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.42	0.050	0	0	0	0-0	0.43	2.35	20	

The following samples were analyzed in this batch: 1407017-01A 1407017-02A

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

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r6

WORKORDER # 1407017

PROJECT NAME	WPX NR23-3 Background	SAMPLER	Reed Wold	DATE	6/30/14	PAGE	1 of 1
PROJECT No.		SITE ID	NR 23-3	TURNAROUND	24 HR	DISPOSAL	By Lab or Return to Client
		EDD FORMAT					
		PURCHASE ORDER					
COMPANY NAME	HRL Compliance	BILL TO COMPANY	WPX				
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	Karolina Blaney				
ADDRESS	2385 F 1/2 Rd	ADDRESS	1058 Co Rd 215				
CITY / STATE / ZIP	Grand Junction, CO 81506	CITY / STATE / ZIP	Parachure CO 81635				
PHONE	970-243-3271	PHONE	970-683-2295				
FAX	970-243-3280	FAX					
E-MAIL	mmumby@hrlcomp.com rwold@hrlcomp.com	E-MAIL	Karolina.blaney@wpxenergy.com				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	Arsenic																					
1	BKGD 4	SO	6/30/14	12:35	1	8		X	X																				
2	BKGD 5			12:40	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:

3.2 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	Reed Wold	Reed Wold	6/30/14	2:50
RECEIVED BY			6-30	5'55
RELINQUISHED BY				
RECEIVED BY		Diane F. Shaw	7/1/14	0930
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **01-Jul-14 09:30**

Work Order: **1407017** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 01-Jul-14 (Date) Reviewed by: Ann Preston (eSignature) 02-Jul-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):	3.2 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/1/2014 10:29:09 AM		
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: (970) 256-5783
Nick Martinez
ALS Environmental
127 E-1st Street
PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

J14010426070356

BILL SENDER

SHIP TO: (616) 399-5070
sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 49424

ShipDate: 30JUN14
ActWgt: 70.0 LB
CAD: 3284548/INET3400

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code

Ref # 063014-1
Invoice #
PO #
Dept # *Parachute

2 of 3

TUE - 01 JUL 10:30A
PRIORITY OVERNIGHT

MPS# 7704 6966 7576
0201
Mstr# 7704 6966 7440
0201

49424
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GRR

XX GRRA

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After printing this label:
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ALS Parachute Custody Seal
DATE 6-30 Time 1700
Name