



May 7, 2015

Stan Spencer
NW Environmental Protection Specialist
Colorado Oil and Gas Conservation Commission
796 Megan Ave, Suite 201,
Rifle, CO 81650

Re: RMV 137-27 Produced Water Spill Closure Request

Dear Mr. Spencer,

Attached are the laboratory reports and the sample location map for soil samples collected from the excavated area, landfarmed material, and nearby non-impacted native soil in order to close the produced water spill that occurred at the RMV 137-27 well pad and was discovered on March 26, 2015.

The impacted soil was excavated and one confirmation sample was collected from the bottom of the excavation. The excavated soil was landfarmed on location and a composite sample was collected from the landfarm. Both samples were analyzed for an abbreviated list of Table 910-1 analytes which included TPH, BTEX, PAHs, and inorganics. The list was approved by COGCC via supplemental form 19 (Document # 400818952).

As the attached laboratory reports indicate, the constituents of concern listed above, tested below the cleanup requirements. Based on these results, WPX respectfully requests closure of this incident.

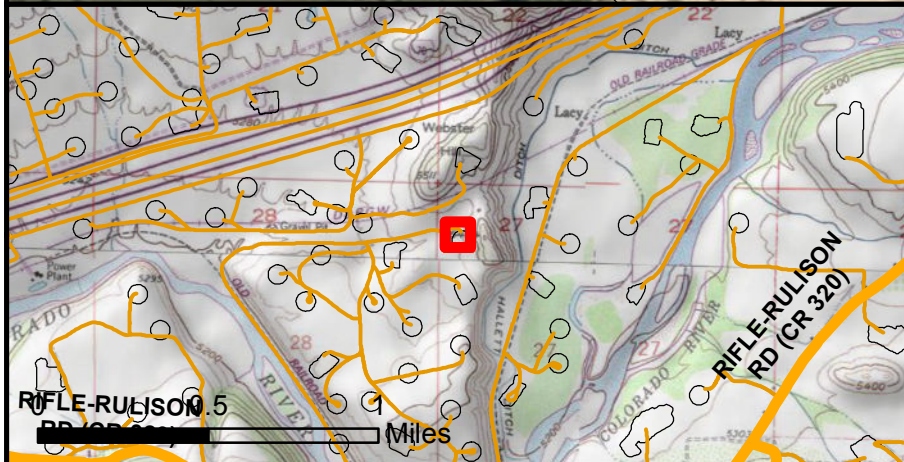
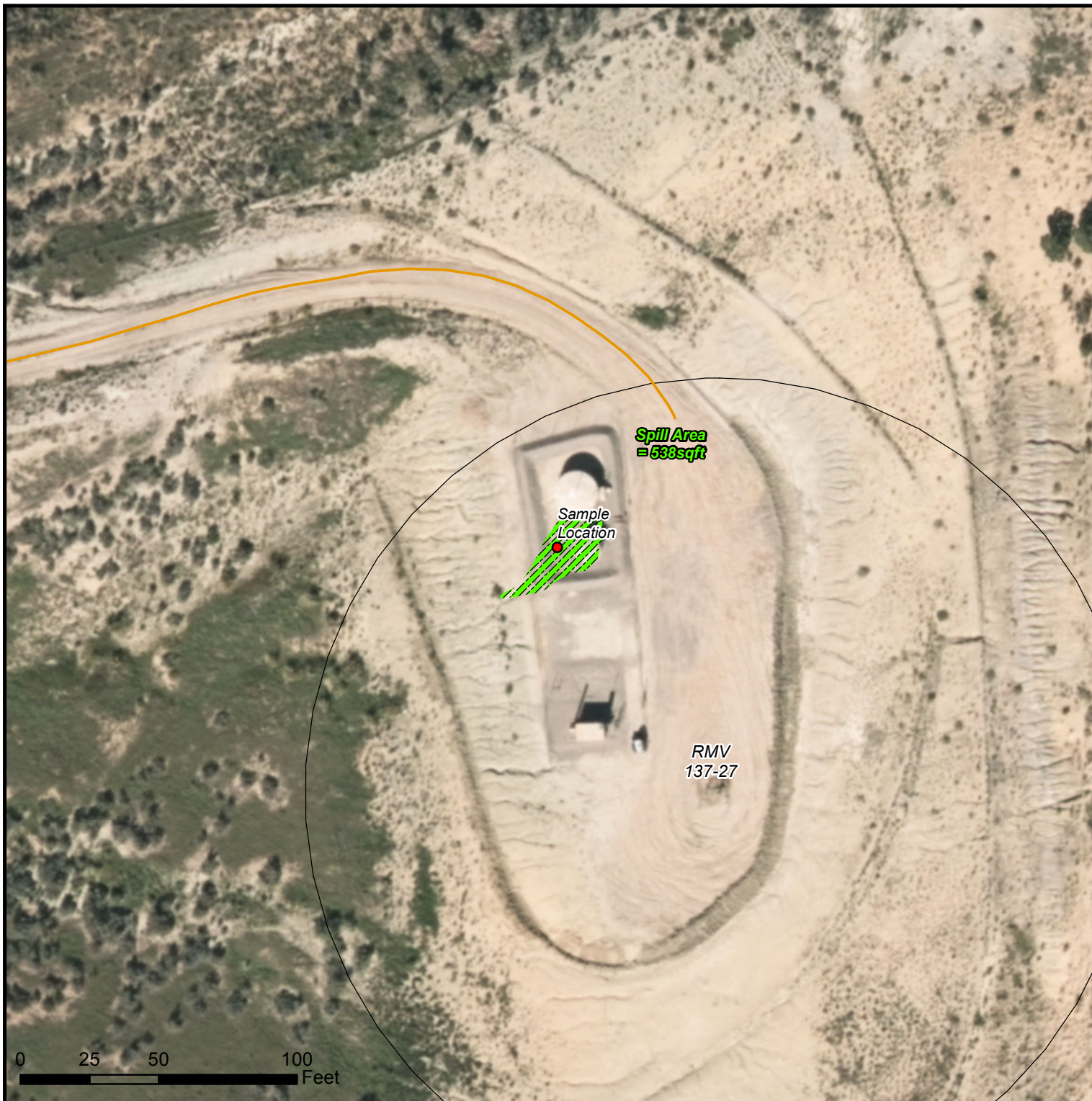
Please do not hesitate to contact me at (970) 683-2295 should you have any questions or concerns regarding this information.

Sincerely,

Karolina Blaney
Environmental Specialist

Attachments (2)

- Sampling Location Map
- Laboratory Reports



Spill Closure Map

RMV 137-27

39.501028 -107.882551

Section 27, Township 6 South, Range 94 West

- Sample Location
- ▨ Impacted Area
- Road (from Garfield County)
- Existing Road
- Stream
- Existing Pad
- River





Legend

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

RMV 137-27
Arsenic Background Sample Location Map
T6S R94W, Section 27

May 7, 2015



Contaminant of Concern ↓	COGCC standards	Location →	RMV 137-27 Confirmation	RMV 137-27 Landfarm	RMV 137-27- B-5
		Date Sampled →	3/30/2015	4/16/2015	3/31/2015
Organic Compounds in Soil					
TPH (DRO+GRO)	500	mg/kg	ND	32	
DRO		mg/kg	ND	32	
GRO		mg/kg	ND	ND	
Benzene	0.17	mg/kg	ND	ND	
Toluene	85	mg/kg	ND	ND	
Ethylbenzene	100	mg/kg	ND	ND	
Xylenes (Total)	175	mg/kg	ND	ND	
Acenaphthene	1,000	mg/kg	ND	ND	
Anthracene	1,000	mg/kg	ND	ND	
Benzo(A)anthracene	0.22	mg/kg	ND	ND	
Benzo(B)fluoranthene	0.22	mg/kg	ND	ND	
Benzo(K)fluoranthene	2.2	mg/kg	ND	ND	
Benzo(A)pyrene	0.022	mg/kg	ND	ND	
Chrysene	22	mg/kg	ND	ND	
Dibenzo(A,H)anthracene	0.022	mg/kg	ND	ND	
Fluoranthene	1,000	mg/kg	ND	ND	
Fluorene	1,000	mg/kg	ND	ND	
Indeno(1,2,3-cd)pyrene	0.22	mg/kg	ND	ND	
Naphthalene	23	mg/kg	ND	ND	
Pyrene	1,000	mg/kg	ND	ND	
Inorganics in Soil					
EC	<4 or 2 x background	mmhos/cm	1.3	2.9	0.74
SAR	<12		13	18	0.087
pH	6-9		8.8	8.5	6.5



06-Apr-2015

Karolina Blaney
WPX Energy Rocky Mountain, LLC
1058 Country Rd 215
Parachute, CO 81635

Re: **RMV 137-27 Confirmation**

Work Order: **1504038**

Dear Karolina,

ALS Environmental received 1 sample on 01-Apr-2015 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 17.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: WPX Energy Rocky Mountain, LLC
Project: RMV 137-27 Confirmation
Work Order: 1504038

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1504038-01	RMV 137-27	Soil		3/30/2015 13:00	4/1/2015 10:00	<input type="checkbox"/>

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

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

ALS Group USA, Corp

Date: 06-Apr-15

Client: WPX Energy Rocky Mountain, LLC
Project: RMV 137-27 Confirmation
Sample ID: RMV 137-27
Collection Date: 3/30/2015 01:00 PM

Work Order: 1504038
Lab ID: 1504038-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 4/1/15	Analyst: IT
DRO (C10-C28)	ND		4.9	mg/Kg-dry	1	4/2/2015 02:05 PM
Surr: 4-Terphenyl-d14	59.2		39-133	%REC	1	4/2/2015 02:05 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 4/1/15	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	4/1/2015 05:17 PM
Surr: Toluene-d8	119		50-150	%REC	1	4/1/2015 05:17 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 4/3/15	Analyst: JEC
Calcium	13		5.0	mg/L	10	4/3/2015 11:28 AM
Magnesium	5.8		2.0	mg/L	10	4/3/2015 11:28 AM
Sodium	220		2.0	mg/L	10	4/3/2015 11:28 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/3/15	Analyst: JEC
Sodium Adsorption Ratio	13		0.010	none	1	4/3/2015
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 4/1/15	Analyst: RS
Acenaphthene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Anthracene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Benzo(a)anthracene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Benzo(a)pyrene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Benzo(b)fluoranthene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Benzo(g,h,i)perylene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Benzo(k)fluoranthene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Chrysene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Dibenzo(a,h)anthracene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Fluoranthene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Fluorene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Indeno(1,2,3-cd)pyrene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Naphthalene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Pyrene	ND		7.8	µg/Kg-dry	1	4/2/2015 10:30 AM
Surr: 2-Fluorobiphenyl	60.2		12-100	%REC	1	4/2/2015 10:30 AM
Surr: 4-Terphenyl-d14	82.6		25-137	%REC	1	4/2/2015 10:30 AM
Surr: Nitrobenzene-d5	55.9		37-107	%REC	1	4/2/2015 10:30 AM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 3/31/15	Analyst: BG
Benzene	ND		35	µg/Kg-dry	1	4/1/2015 09:48 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	4/1/2015 09:48 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	4/1/2015 09:48 PM
o-Xylene	ND		35	µg/Kg-dry	1	4/1/2015 09:48 PM
Toluene	ND		35	µg/Kg-dry	1	4/1/2015 09:48 PM

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

ALS Group USA, Corp

Date: 06-Apr-15

Client: WPX Energy Rocky Mountain, LLC

Project: RMV 137-27 Confirmation

Work Order: 1504038

Sample ID: RMV 137-27

Lab ID: 1504038-01

Collection Date: 3/30/2015 01:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	ND		110	µg/Kg-dry	1	4/1/2015 09:48 PM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	4/1/2015 09:48 PM
Surr: 4-Bromofluorobenzene	96.2		70-130	%REC	1	4/1/2015 09:48 PM
Surr: Dibromofluoromethane	101		70-130	%REC	1	4/1/2015 09:48 PM
Surr: Toluene-d8	104		70-130	%REC	1	4/1/2015 09:48 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO Prep: USDA Method 20B / 4/3/15 Analyst: JB			
Electrical Conductivity @ Saturation	1.3		0.050	mmhos/cm @2	10	4/3/2015 05:20 PM
MOISTURE			E160.3M Analyst: EVB			
Moisture	15		0.050	% of sample	1	4/1/2015 03:05 PM
PH			SW9045D Prep: EXTRACT / 4/1/15 Analyst: JRF			
pH	8.8			s.u.	1	4/1/2015 02:00 PM

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

ALS Group USA, Corp

Date: 06-Apr-15

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504038
Project: RMV 137-27 Confirmation

QC BATCH REPORT

Batch ID: **69316** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-69316-69316				Units: mg/Kg		Analysis Date: 4/2/2015 08:50 AM		
Client ID:		Run ID: GC8_150401A				SeqNo: 3206583		Prep Date: 4/1/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	1.724	0	2	0	86.2	39-133		0		

LCS		Sample ID: DLCSS1-69316-69316				Units: mg/Kg		Analysis Date: 4/2/2015 09:20 AM		
Client ID:		Run ID: GC8_150401A				SeqNo: 3206584		Prep Date: 4/1/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	185.3	5.0	200	0	92.6	61-109		0		
Surr: 4-Terphenyl-d14	1.431	0	2	0	71.6	39-133		0		

MS		Sample ID: 15031292-08B MS				Units: mg/Kg		Analysis Date: 4/2/2015 09:50 AM		
Client ID:		Run ID: GC8_150401A				SeqNo: 3206585		Prep Date: 4/1/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	293.9	8.0	321.7	0	91.4	48-110		0		
Surr: 4-Terphenyl-d14	2.215	0	3.217	0	68.9	39-133		0		

MSD		Sample ID: 15031292-08B MSD				Units: mg/Kg		Analysis Date: 4/2/2015 10:20 AM		
Client ID:		Run ID: GC8_150401A				SeqNo: 3206586		Prep Date: 4/1/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	296.3	7.9	315.5	0	93.9	48-110	293.9	0.82	30	
Surr: 4-Terphenyl-d14	2.306	0	3.155	0	73.1	39-133	2.215	4.02	30	

The following samples were analyzed in this batch: 1504038-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504038
Project: RMV 137-27 Confirmation

QC BATCH REPORT

Batch ID: **69331** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-69331-69331				Units: µg/Kg		Analysis Date: 4/1/2015 04:51 PM		
Client ID:		Run ID: GC9_150401A				SeqNo: 3206541		Prep Date: 4/1/2015		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	4854	0	5000	0	97.1	50-150	0			

LCS		Sample ID: LCS-69331-69331				Units: µg/Kg		Analysis Date: 4/1/2015 04:01 PM		
Client ID:		Run ID: GC9_150401A				SeqNo: 3206540		Prep Date: 4/1/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	532700	2,500	500000	0	107	70-130	0			
Surr: Toluene-d8	4714	0	5000	0	94.3	50-150	0			

MS		Sample ID: 1504038-01A MS				Units: µg/Kg		Analysis Date: 4/1/2015 11:39 PM		
Client ID: RMV 137-27		Run ID: GC9_150401A				SeqNo: 3206555		Prep Date: 4/1/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	438100	2,500	500000	0	87.6	70-130	0			
Surr: Toluene-d8	4472	0	5000	0	89.4	50-150	0			

MSD		Sample ID: 1504038-01A MSD				Units: µg/Kg		Analysis Date: 4/2/2015 12:05 PM		
Client ID: RMV 137-27		Run ID: GC9_150401A				SeqNo: 3206576		Prep Date: 4/1/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	428600	2,500	500000	0	85.7	70-130	438100	2.2	30	
Surr: Toluene-d8	4750	0	5000	0	95	50-150	4472	6.03	30	

The following samples were analyzed in this batch:

1504038-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504038
Project: RMV 137-27 Confirmation

QC BATCH REPORT

Batch ID: **69330** Instrument ID **ICP2** Method: **SW846 6010C**

DUP				Sample ID: 1504060-05BDUP				Units: mg/L			Analysis Date: 4/3/2015 11:45 AM			
Client ID:				Run ID: ICP2_150403A				SeqNo: 3208646			Prep Date: 4/3/2015		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Calcium	92.24	5.0	0	0	0	0-0	90.91	1.46						
Magnesium	23.5	2.0	0	0	0	0-0	22.33	5.08						
Sodium	3.534	2.0	0	0	0	0-0	3.554	0.561						

DUP				Sample ID: 1504060-05BDUP				Units: none		Analysis Date: 4/3/2015	
Client ID:			Run ID: SAR_150403A			SeqNo: 3208669		Prep Date: 4/3/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sodium Adsorption Ratio	0.08504	0.010	0	0	0		0.0866	1.82	50		

The following samples were analyzed in this batch: | 1504038-01A |

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504038
Project: RMV 137-27 Confirmation

QC BATCH REPORT

Batch ID: **69302** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-69302-69302				Units: µg/Kg		Analysis Date: 4/1/2015 11:43 PM		
Client ID:		Run ID: SVMS4_150401B				SeqNo: 3206591		Prep Date: 4/1/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1170	0	1667	0	70.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1945	0	1667	0	117	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1152	0	1667	0	69.1	37-107	0			

LCS		Sample ID: SLCSS1-69302-69302				Units: µg/Kg		Analysis Date: 4/2/2015 12:11 PM		
Client ID:		Run ID: SVMS4_150401B				SeqNo: 3206624		Prep Date: 4/1/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	441.3	6.7	666.7	0	66.2	45-110	0			
Anthracene	533.3	6.7	666.7	0	80	55-105	0			
Benzo(a)anthracene	533	6.7	666.7	0	79.9	50-110	0			
Benzo(a)pyrene	546.7	6.7	666.7	0	82	50-110	0			
Benzo(b)fluoranthene	538.3	6.7	666.7	0	80.7	45-115	0			
Benzo(g,h,i)perylene	522.3	6.7	666.7	0	78.3	40-125	0			
Benzo(k)fluoranthene	524	6.7	666.7	0	78.6	45-115	0			
Chrysene	529	6.7	666.7	0	79.3	55-110	0			
Dibenzo(a,h)anthracene	553.3	6.7	666.7	0	83	40-125	0			
Fluoranthene	513.3	6.7	666.7	0	77	55-115	0			
Fluorene	488	6.7	666.7	0	73.2	50-110	0			
Indeno(1,2,3-cd)pyrene	570.3	6.7	666.7	0	85.5	40-120	0			
Naphthalene	450.7	6.7	666.7	0	67.6	40-105	0			
Pyrene	626.7	6.7	666.7	0	94	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1171	0	1667	0	70.3	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1694	0	1667	0	102	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1213	0	1667	0	72.8	37-107	0			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504038
Project: RMV 137-27 Confirmation

QC BATCH REPORT

Batch ID: **69302** Instrument ID **SVMS4** Method: **SW846 8270D**

MS				Sample ID: 15031672-03B MS			Units: µg/Kg		Analysis Date: 4/2/2015 01:45 AM	
Client ID:				Run ID: SVMS4_150401B			SeqNo: 3206593		Prep Date: 4/1/2015	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	826.2	13	1286	0	64.2	45-110	0			
Anthracene	1049	13	1286	0	81.5	55-105	0			
Benzo(a)anthracene	1091	13	1286	0	84.8	50-110	0			
Benzo(a)pyrene	1102	13	1286	0	85.7	50-110	0			
Benzo(b)fluoranthene	1055	13	1286	0	82	45-115	0			
Benzo(g,h,i)perylene	1161	13	1286	0	90.2	40-125	0			
Benzo(k)fluoranthene	1073	13	1286	0	83.4	45-115	0			
Chrysene	1082	13	1286	0	84.1	55-110	0			
Dibenzo(a,h)anthracene	1148	13	1286	0	89.2	40-125	0			
Fluoranthene	1046	13	1286	0	81.3	55-115	0			
Fluorene	908.5	13	1286	0	70.6	50-110	0			
Indeno(1,2,3-cd)pyrene	1246	13	1286	0	96.9	40-120	0			
Naphthalene	824.3	13	1286	0	64.1	40-105	0			
Pyrene	1294	13	1286	0	101	45-125	0			
Surr: 2-Fluorobiphenyl	2183	0	3215	0	67.9	12-100	0			
Surr: 4-Terphenyl-d14	3574	0	3215	0	111	25-137	0			
Surr: Nitrobenzene-d5	2234	0	3215	0	69.5	37-107	0			

MSD				Sample ID: 15031672-03B MSD			Units: µg/Kg		Analysis Date: 4/2/2015 02:12 AM	
Client ID:				Run ID: SVMS4_150401B			SeqNo: 3206594		Prep Date: 4/1/2015	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	979	13	1312	0	74.6	45-110	826.2	16.9	30	
Anthracene	1104	13	1312	0	84.1	55-105	1049	5.11	30	
Benzo(a)anthracene	1108	13	1312	0	84.4	50-110	1091	1.56	30	
Benzo(a)pyrene	1157	13	1312	0	88.2	50-110	1102	4.91	30	
Benzo(b)fluoranthene	1092	13	1312	0	83.2	45-115	1055	3.42	30	
Benzo(g,h,i)perylene	1024	13	1312	0	78	40-125	1161	12.5	30	
Benzo(k)fluoranthene	1102	13	1312	0	84	45-115	1073	2.69	30	
Chrysene	1049	13	1312	0	79.9	55-110	1082	3.15	30	
Dibenzo(a,h)anthracene	1107	13	1312	0	84.3	40-125	1148	3.61	30	
Fluoranthene	1052	13	1312	0	80.2	55-115	1046	0.609	30	
Fluorene	1034	13	1312	0	78.8	50-110	908.5	12.9	30	
Indeno(1,2,3-cd)pyrene	1129	13	1312	0	86	40-120	1246	9.83	30	
Naphthalene	930.4	13	1312	0	70.9	40-105	824.3	12.1	30	
Pyrene	1270	13	1312	0	96.8	45-125	1294	1.82	30	
Surr: 2-Fluorobiphenyl	2612	0	3281	0	79.6	12-100	2183	17.9	40	
Surr: 4-Terphenyl-d14	3538	0	3281	0	108	25-137	3574	0.999	40	
Surr: Nitrobenzene-d5	2644	0	3281	0	80.6	37-107	2234	16.8	40	

The following samples were analyzed in this batch: 1504038-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504038
Project: RMV 137-27 Confirmation

QC BATCH REPORT

Batch ID: **69261** Instrument ID **VMS6** Method: **SW8260B**

Sample ID: MBLK-69261-69261				Units: µg/Kg			Analysis Date: 4/1/2015 06:55 PM			
Client ID:		Run ID: VMS6_150401A			SeqNo: 3206777		Prep Date: 3/31/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1042</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1001</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>903.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>90.4</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1060</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>			

LCS				Sample ID: LCS-69261-69261			Units: µg/Kg		Analysis Date: 4/1/2015 05:31 PM		
Client ID:			Run ID: VMS6_150401A			SeqNo: 3206774		Prep Date: 3/31/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	960.5	30	1000		0	96	75-125	0			
Ethylbenzene	1066	30	1000		0	107	75-125	0			
m,p-Xylene	2144	60	2000		0	107	80-125	0			
o-Xylene	1054	30	1000		0	105	75-125	0			
Toluene	1014	30	1000		0	101	70-125	0			
Xylenes, Total	3199	90	3000		0	107	75-125	0			
Surr: 1,2-Dichloroethane-d4	1009	0	1000		0	101	70-130	0			
Surr: 4-Bromofluorobenzene	1016	0	1000		0	102	70-130	0			
Surr: Dibromofluoromethane	1007	0	1000		0	101	70-130	0			
Surr: Toluene-d8	1061	0	1000		0	106	70-130	0			

The following samples were analyzed in this batch:

1504038-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504038
Project: RMV 137-27 Confirmation

QC BATCH REPORT

Batch ID: **69320** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-69320-69320					Units: s.u.			Analysis Date: 4/1/2015 02:00 PM				
Client ID:					Run ID: WETCHEM_150401L					SeqNo: 3205281			Prep Date: 4/1/2015			DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC		Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					3.92		0	4	0	98		90-110	0				

DUP					Sample ID: 1504039-01A DUP					Units: s.u.			Analysis Date: 4/1/2015 02:00 PM				
Client ID:					Run ID: WETCHEM_150401L					SeqNo: 3205284			Prep Date: 4/1/2015			DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH					8.33		0	0	0	0	0-0	8.33	0	20			

The following samples were analyzed in this batch:

1504038-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504038
Project: RMV 137-27 Confirmation

QC BATCH REPORT

Batch ID: **69330** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 1504060-05B DUP				Units: mmhos/cm @25°		Analysis Date: 4/3/2015 05:20 PM		
Client ID:		Run ID: WETCHEM_150403M			SeqNo: 3209707		Prep Date: 4/3/2015		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.763	0.050	0	0	0		0.741	2.93	50	

The following samples were analyzed in this batch:

1504038-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504038
Project: RMV 137-27 Confirmation

QC BATCH REPORT

Batch ID: **R160392** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R160392				Units: % of sample		Analysis Date: 4/1/2015 03:05 PM		
Client ID:		Run ID: MOIST_150401B				SeqNo: 3206670		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-R160392				Units: % of sample		Analysis Date: 4/1/2015 03:05 PM		
Client ID:		Run ID: MOIST_150401B			SeqNo: 3206669		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: 15031582-01B DUP					Units: % of sample		Analysis Date: 4/1/2015 03:05 PM	
Client ID:			Run ID: MOIST_150401B			SeqNo: 3206655		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 23.83 0.050 0 0 0 24.63 3.3 20

DUP				Sample ID: 1504038-01A DUP				Units: % of sample			Analysis Date: 4/1/2015 03:05 PM			
Client ID: RMV 137-27				Run ID: MOIST_150401B				SeqNo: 3206667			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 14.76 0.050 0 0 0 14.66 0.68 20

The following samples were analyzed in this batch:

1504038-01A

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

WORKORDER
#

1504038

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

[illegible]

*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: <div style="text-align: center;">4.2°C (C)</div>	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/> X	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forma)
	<input type="checkbox"/>	LEVEL IV (Std QC + forma + raw data)
	<input type="checkbox"/>	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-NaHSO ₄ 6-Other 7-4 degrees C 8-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Karolina Blaney</i>	Karolina Blaney	3/31/2015	18:00
RECEIVED BY	<i>[Signature]</i>	<i>WR</i>	3-31	1600
RELINQUISHED BY	<i>[Signature]</i>	<i>WR</i>	3-31	1610
RECEIVED BY	<i>D. F. Shaw</i>	Diane F. Shaw	4/1/15	1000
RELINQUISHED BY				
RECEIVED BY				

3/31/2015

FedEx Ship Manager - Print Your Label(s)

From: (616) 298-1033
Nick Martinez
ALS Environmental
127 E. 1st Street

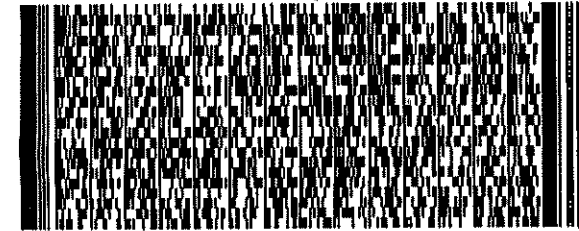
Origin ID: RILA



PARACHUTE, CO 81635

SHIP TO: (616) 399-8878
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL SENDER



Ship Date: 31MAR15
ActWgt: 85.0 LB
CAD: 2264840/NET3610

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 033115-1
Invoice #
PO # Parachute
Dept #

2 of 2

WED - 01 APR 10:30A
PRIORITY OVERNIGHT

MP# 7732 6340 1610

0263

Metr# 7732 6340 1583

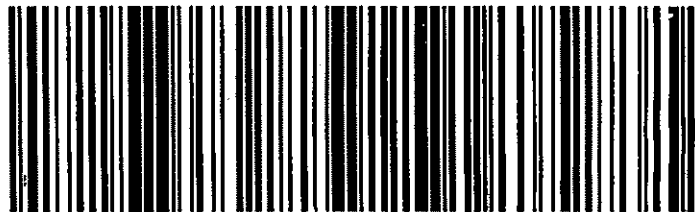
0261

XX HLMA

49424

MI-US

GRR



537J28FCSJEE4B

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.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Sample Receipt Checklist

Client Name: **WPX**

Date/Time Received: **01-Apr-15 10:00**

Work Order: **1504038**

Received by: **DS**

Checklist completed by Diane Shaw 01-Apr-15
eSignature Date

Reviewed by: Chad Whelton 02-Apr-15
eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.2 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>4/1/2015 12:15:13 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



27-Apr-2015

Karolina Blaney
WPX Energy Rocky Mountain, LLC
1058 Country Rd 215
Parachute, CO 81635

Re: **RMV 137-27 Landfarm**

Work Order: **15041123**

Dear Karolina,

ALS Environmental received 1 sample on 18-Apr-2015 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 18.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: WPX Energy Rocky Mountain, LLC
Project: RMV 137-27 Landfarm
Work Order: 15041123

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
15041123-01	RMV 137-27 Landfarm	Soil		4/16/2015 08:30	4/18/2015 10:00	<input type="checkbox"/>

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

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

ALS Group USA, Corp

Date: 27-Apr-15

Client: WPX Energy Rocky Mountain, LLC
Project: RMV 137-27 Landfarm
Sample ID: RMV 137-27 Landfarm
Collection Date: 4/16/2015 08:30 AM

Work Order: 15041123
Lab ID: 15041123-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	32		SW8015M		Prep: SW3541 / 4/21/15	Analyst: IT
			4.3	mg/Kg-dry	1	4/22/2015 04:00 AM
Surr: 4-Terphenyl-d14	71.9		39-133	%REC	1	4/22/2015 04:00 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015D		Prep: SW5035 / 4/21/15	Analyst: IT
			2.6	mg/Kg-dry	1	4/21/2015 01:38 PM
Surr: Toluene-d8	102		50-150	%REC	1	4/21/2015 01:38 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 4/22/15	Analyst: JEC
Calcium	38		5.0	mg/L	10	4/23/2015 02:20 PM
Magnesium	10		2.0	mg/L	10	4/23/2015 02:20 PM
Sodium	500		2.0	mg/L	10	4/23/2015 02:20 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/22/15	Analyst: JEC
Sodium Adsorption Ratio	18		0.010	none	1	4/23/2015
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 4/22/15	Analyst: RS
Acenaphthene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Anthracene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Benzo(a)anthracene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Benzo(a)pyrene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Benzo(b)fluoranthene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Benzo(g,h,i)perylene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Benzo(k)fluoranthene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Chrysene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Dibenzo(a,h)anthracene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Fluoranthene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Fluorene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Indeno(1,2,3-cd)pyrene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Naphthalene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Pyrene	ND		6.9	µg/Kg-dry	1	4/22/2015 11:47 PM
Surr: 2-Fluorobiphenyl	61.0		12-100	%REC	1	4/22/2015 11:47 PM
Surr: 4-Terphenyl-d14	93.3		25-137	%REC	1	4/22/2015 11:47 PM
Surr: Nitrobenzene-d5	67.0		37-107	%REC	1	4/22/2015 11:47 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 4/21/15	Analyst: AK
Benzene	ND		31	µg/Kg-dry	1	4/24/2015 06:50 AM
Ethylbenzene	ND		31	µg/Kg-dry	1	4/24/2015 06:50 AM
m,p-Xylene	ND		63	µg/Kg-dry	1	4/24/2015 06:50 AM
o-Xylene	ND		31	µg/Kg-dry	1	4/24/2015 06:50 AM
Toluene	ND		31	µg/Kg-dry	1	4/24/2015 06:50 AM

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

ALS Group USA, Corp

Date: 27-Apr-15

Client: WPX Energy Rocky Mountain, LLC
Project: RMV 137-27 Landfarm
Sample ID: RMV 137-27 Landfarm
Collection Date: 4/16/2015 08:30 AM

Work Order: 15041123
Lab ID: 15041123-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes, Total	ND		94	µg/Kg-dry	1	4/24/2015 06:50 AM
Surr: 1,2-Dichloroethane-d4	99.4		70-130	%REC	1	4/24/2015 06:50 AM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	4/24/2015 06:50 AM
Surr: Dibromofluoromethane	90.0		70-130	%REC	1	4/24/2015 06:50 AM
Surr: Toluene-d8	105		70-130	%REC	1	4/24/2015 06:50 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/22/15		Analyst: JB
Electrical Conductivity @ Saturation	2.9		0.050	mmhos/cm @2	10	4/23/2015 03:40 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	4.5		0.050	% of sample	1	4/23/2015 03:20 PM
PH			SW9045D	Prep: EXTRACT / 4/21/15		Analyst: KF
pH	8.5			s.u.	1	4/22/2015 09:30 AM

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

ALS Group USA, Corp

Date: 27-Apr-15

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **70092** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-70092-70092				Units: mg/Kg		Analysis Date: 4/21/2015 10:59 PM		
Client ID:		Run ID: GC8_150421B				SeqNo: 3236762		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	1.69	0	2	0	84.5	39-133		0		

LCS		Sample ID: DLCSS1-70092-70092				Units: mg/Kg		Analysis Date: 4/21/2015 11:29 PM		
Client ID:		Run ID: GC8_150421B				SeqNo: 3236764		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	187.6	5.0	200	0	93.8	61-109		0		
Surr: 4-Terphenyl-d14	1.477	0	2	0	73.9	39-133		0		

MS		Sample ID: 15041165-01A MS				Units: mg/Kg		Analysis Date: 4/21/2015 11:59 PM		
Client ID:		Run ID: GC8_150421B				SeqNo: 3236765		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	1471	7.8	313.9	1487	-5.05	48-110		0		SO
Surr: 4-Terphenyl-d14	2.598	0	3.139	0	82.8	39-133		0		

MSD		Sample ID: 15041165-01A MSD				Units: mg/Kg		Analysis Date: 4/22/2015 12:29 PM		
Client ID:		Run ID: GC8_150421B				SeqNo: 3236774		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	1416	8.0	319.6	1487	-22	48-110	1471	3.78	30	SO
Surr: 4-Terphenyl-d14	2.505	0	3.196	0	78.4	39-133	2.598	3.62	30	

The following samples were analyzed in this batch:

15041123-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **70077** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-70077-70077				Units: µg/Kg		Analysis Date: 4/21/2015 12:23 PM		
Client ID:		Run ID: GC9_150421A				SeqNo: 3236065		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	4630	0	5000	0	92.6	50-150	0			

LCS		Sample ID: LCS-70077-70077				Units: µg/Kg		Analysis Date: 4/21/2015 11:59 AM		
Client ID:		Run ID: GC9_150421A				SeqNo: 3236064		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	441300	2,500	500000	0	88.3	70-130	0			
<i>Surr: Toluene-d8</i>	5276	0	5000	0	106	50-150	0			

MS		Sample ID: 15041124-01A MS				Units: µg/Kg		Analysis Date: 4/21/2015 03:17 PM		
Client ID:		Run ID: GC9_150421A				SeqNo: 3236071		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	488500	2,500	500000	0	97.7	70-130	0			
<i>Surr: Toluene-d8</i>	5464	0	5000	0	109	50-150	0			

MSD		Sample ID: 15041124-01A MSD				Units: µg/Kg		Analysis Date: 4/21/2015 03:41 PM		
Client ID:		Run ID: GC9_150421A				SeqNo: 3236087		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	438800	2,500	500000	0	87.8	70-130	488500	10.7	30	
<i>Surr: Toluene-d8</i>	4448	0	5000	0	89	50-150	5464	20.5	30	

The following samples were analyzed in this batch:

15041123-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **70057** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP					Sample ID: 15041126-01ADUP					Units: none			Analysis Date: 4/23/2015				
Client ID:					Run ID: SAR_150423A					SeqNo: 3240493			Prep Date: 4/22/2015			DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Sodium Adsorption Ratio					35.58	0.010	0	0	0		34.08	4.3	50				

The following samples were analyzed in this batch:

15041123-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **70121** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-70121-70121				Units: µg/Kg		Analysis Date: 4/22/2015 06:53 PM		
Client ID:		Run ID: SVMS5_150422A				SeqNo: 3238720		Prep Date: 4/22/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1181	0	1667	0	70.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1757	0	1667	0	105	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1297	0	1667	0	77.8	37-107	0			

LCS		Sample ID: SLCSS1-70121-70121				Units: µg/Kg		Analysis Date: 4/22/2015 07:15 PM		
Client ID:		Run ID: SVMS5_150422A				SeqNo: 3238721		Prep Date: 4/22/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	521	6.7	666.7	0	78.1	45-110	0			
Anthracene	574.3	6.7	666.7	0	86.1	55-105	0			
Benzo(a)anthracene	602.3	6.7	666.7	0	90.3	50-110	0			
Benzo(a)pyrene	638.7	6.7	666.7	0	95.8	50-110	0			
Benzo(b)fluoranthene	607	6.7	666.7	0	91	45-115	0			
Benzo(g,h,i)perylene	586.7	6.7	666.7	0	88	40-125	0			
Benzo(k)fluoranthene	618	6.7	666.7	0	92.7	45-115	0			
Chrysene	590.3	6.7	666.7	0	88.5	55-110	0			
Dibenzo(a,h)anthracene	622	6.7	666.7	0	93.3	40-125	0			
Fluoranthene	577.7	6.7	666.7	0	86.6	55-115	0			
Fluorene	542.3	6.7	666.7	0	81.3	50-110	0			
Indeno(1,2,3-cd)pyrene	629	6.7	666.7	0	94.3	40-120	0			
Naphthalene	389.7	6.7	666.7	0	58.4	40-105	0			
Pyrene	636.7	6.7	666.7	0	95.5	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1264	0	1667	0	75.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1760	0	1667	0	106	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1350	0	1667	0	81	37-107	0			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **70121** Instrument ID **SVMS5** Method: **SW846 8270D**

MS				Sample ID: 15041140-01B MS			Units: µg/Kg		Analysis Date: 4/22/2015 07:38 PM		
Client ID:			Run ID: SVMS5_150422A			SeqNo: 3238722		Prep Date: 4/22/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1080	13	1304	0	82.8	45-110	0				
Anthracene	1167	13	1304	0	89.4	55-105	0				
Benzo(a)anthracene	1216	13	1304	0	93.2	50-110	0				
Benzo(a)pyrene	1309	13	1304	0	100	50-110	0				
Benzo(b)fluoranthene	1304	13	1304	0	100	45-115	0				
Benzo(g,h,i)perylene	1191	13	1304	0	91.3	40-125	0				
Benzo(k)fluoranthene	1313	13	1304	0	101	45-115	0				
Chrysene	1195	13	1304	0	91.6	55-110	0				
Dibenzo(a,h)anthracene	1272	13	1304	0	97.5	40-125	0				
Fluoranthene	1165	13	1304	0	89.3	55-115	0				
Fluorene	1127	13	1304	0	86.4	50-110	0				
Indeno(1,2,3-cd)pyrene	1298	13	1304	0	99.5	40-120	0				
Naphthalene	750.5	13	1304	0	57.5	40-105	0				
Pyrene	1249	13	1304	0	95.7	45-125	0				
Surr: 2-Fluorobiphenyl	2400	0	3260	0	73.6	12-100	0				
Surr: 4-Terphenyl-d14	3421	0	3260	0	105	25-137	0				
Surr: Nitrobenzene-d5	2640	0	3260	0	81	37-107	0				

MSD				Sample ID: 15041140-01B MSD			Units: µg/Kg		Analysis Date: 4/22/2015 08:01 PM		
Client ID:			Run ID: SVMS5_150422A			SeqNo: 3238723		Prep Date: 4/22/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1024	13	1318	0	77.6	45-110	1080	5.35	30		
Anthracene	1087	13	1318	0	82.5	55-105	1167	7.02	30		
Benzo(a)anthracene	1137	13	1318	0	86.2	50-110	1216	6.73	30		
Benzo(a)pyrene	1177	13	1318	0	89.3	50-110	1309	10.6	30		
Benzo(b)fluoranthene	1171	13	1318	0	88.8	45-115	1304	10.8	30		
Benzo(g,h,i)perylene	1004	13	1318	0	76.1	40-125	1191	17	30		
Benzo(k)fluoranthene	1008	13	1318	0	76.4	45-115	1313	26.3	30		
Chrysene	1093	13	1318	0	82.9	55-110	1195	8.9	30		
Dibenzo(a,h)anthracene	919.4	13	1318	0	69.7	40-125	1272	32.1	30	R	
Fluoranthene	1117	13	1318	0	84.7	55-115	1165	4.22	30		
Fluorene	1065	13	1318	0	80.8	50-110	1127	5.63	30		
Indeno(1,2,3-cd)pyrene	906.2	13	1318	0	68.7	40-120	1298	35.5	30	R	
Naphthalene	750.7	13	1318	0	56.9	40-105	750.5	0.0205	30		
Pyrene	1058	13	1318	0	80.2	45-125	1249	16.6	30		
Surr: 2-Fluorobiphenyl	2471	0	3295	0	75	12-100	2400	2.9	40		
Surr: 4-Terphenyl-d14	2956	0	3295	0	89.7	25-137	3421	14.6	40		
Surr: Nitrobenzene-d5	2772	0	3295	0	84.1	37-107	2640	4.87	40		

The following samples were analyzed in this batch:

15041123-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **70076** Instrument ID **VMS7** Method: **SW8260B**

Sample ID: MBLK-70076-70076				Units: µg/Kg			Analysis Date: 4/21/2015 12:44 PM			
Client ID:		Run ID: VMS7_150421A			SeqNo: 3236480		Prep Date: 4/21/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1031</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>		<i>0</i>		
<i>Surr: 4-Bromofluorobenzene</i>	<i>993.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.4</i>	<i>70-130</i>		<i>0</i>		
<i>Surr: Dibromofluoromethane</i>	<i>998.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.8</i>	<i>70-130</i>		<i>0</i>		
<i>Surr: Toluene-d8</i>	<i>995.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.6</i>	<i>70-130</i>		<i>0</i>		

LCS				Sample ID: LCS-70076-70076				Units: µg/Kg			Analysis Date: 4/21/2015 10:34 AM			
Client ID:				Run ID: VMS7_150421A				SeqNo: 3236479			Prep Date: 4/21/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	1082	30	1000	0	108	75-125	0							
Ethylbenzene	1085	30	1000	0	108	75-125	0							
m,p-Xylene	2130	60	2000	0	106	80-125	0							
o-Xylene	1070	30	1000	0	107	75-125	0							
Toluene	1092	30	1000	0	109	70-125	0							
Xylenes, Total	3200	90	3000	0	107	75-125	0							
Surr: 1,2-Dichloroethane-d4	1002	0	1000	0	100	70-130	0							
Surr: 4-Bromofluorobenzene	995.5	0	1000	0	99.6	70-130	0							
Surr: Dibromofluoromethane	999.5	0	1000	0	100	70-130	0							
Surr: Toluene-d8	999	0	1000	0	99.9	70-130	0							

MS				Sample ID: 15041107-01A MS				Units: µg/Kg		Analysis Date: 4/24/2015 07:39 AM	
Client ID:			Run ID: VMS8_150423B			SeqNo: 3240842		Prep Date: 4/21/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1080	30	1000	0	108	75-125	0				
Ethylbenzene	1058	30	1000	0	106	75-125	0				
m,p-Xylene	2129	60	2000	0	106	80-125	0				
o-Xylene	1055	30	1000	0	106	75-125	0				
Toluene	1022	30	1000	0	102	70-125	0				
Xylenes, Total	3184	90	3000	0	106	75-125	0				
Surr: 1,2-Dichloroethane-d4	988	0	1000	0	98.8	70-130	0				
Surr: 4-Bromofluorobenzene	1052	0	1000	0	105	70-130	0				
Surr: Dibromofluoromethane	947.5	0	1000	0	94.8	70-130	0				
Surr: Toluene-d8	995	0	1000	0	99.5	70-130	0				

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **70076** Instrument ID **VMS7** Method: **SW8260B**

MSD				Sample ID: 15041107-01A MSD			Units: µg/Kg		Analysis Date: 4/24/2015 08:03 AM		
Client ID:		Run ID: VMS8_150423B			SeqNo: 3240843		Prep Date: 4/21/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1041	30	1000	0	104	75-125	1080	3.72	30		
Ethylbenzene	1024	30	1000	0	102	75-125	1058	3.27	30		
m,p-Xylene	2054	60	2000	0	103	80-125	2129	3.59	30		
o-Xylene	988	30	1000	0	98.8	75-125	1055	6.56	30		
Toluene	993	30	1000	0	99.3	70-125	1022	2.83	30		
Xylenes, Total	3042	90	3000	0	101	75-125	3184	4.56	30		
Surr: 1,2-Dichloroethane-d4	966	0	1000	0	96.6	70-130	988	2.25	30		
Surr: 4-Bromofluorobenzene	1028	0	1000	0	103	70-130	1052	2.21	30		
Surr: Dibromofluoromethane	948	0	1000	0	94.8	70-130	947.5	0.0528	30		
Surr: Toluene-d8	995	0	1000	0	99.5	70-130	995	0	30		

The following samples were analyzed in this batch:

15041123-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **70057** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 15041126-01A DUP				Units: mmhos/cm @25°		Analysis Date: 4/23/2015 03:40 PM		
Client ID:		Run ID: WETCHEM_150423H				SeqNo: 3239142		Prep Date: 4/22/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	4.8	0.050	0	0	0		4.14	14.8	50	

The following samples were analyzed in this batch:

15041123-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **70088** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-70088-70088				Units: s.u.		Analysis Date: 4/22/2015 09:30 AM		
Client ID:		Run ID: WETCHEM_150422B				SeqNo: 3236434		Prep Date: 4/21/2015		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: 15041107-01C DUP				Units: s.u.		Analysis Date: 4/22/2015 09:30 AM		
Client ID:		Run ID: WETCHEM_150422B				SeqNo: 3236422		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.51 0 0 0 0 0-0 7.47 0.534 20

DUP				Sample ID: 15041107-07C DUP				Units: s.u.			Analysis Date: 4/22/2015 09:30 AM			
Client ID:				Run ID: WETCHEM_150422B				SeqNo: 3236429			Prep Date: 4/21/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

pH 7.28 0 0 0 0 0-0 7.24 0.551 20

The following samples were analyzed in this batch:

15041123-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15041123
Project: RMV 137-27 Landfarm

QC BATCH REPORT

Batch ID: **R161992** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R161992				Units: % of sample		Analysis Date: 4/23/2015 03:20 PM		
Client ID:		Run ID: MOIST_150423B				SeqNo: 3240836		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-R161992				Units: % of sample		Analysis Date: 4/23/2015 03:20 PM		
Client ID:		Run ID: MOIST_150423B				SeqNo: 3240835		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: 15041140-01B DUP				Units: % of sample		Analysis Date: 4/23/2015 03:20 PM		
Client ID:		Run ID: MOIST_150423B				SeqNo: 3240828		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 3.77 0.050 0 0 0 3.96 4.92 20

DUP		Sample ID: 15041140-02B DUP				Units: % of sample		Analysis Date: 4/23/2015 03:20 PM		
Client ID:		Run ID: MOIST_150423B				SeqNo: 3240830		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.3 0.050 0 0 0 5.08 4.24 20

The following samples were analyzed in this batch:

15041123-01A

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



ALS Laboratory Group

HOLLAND, Michigan 49424

Chain-of-Custody

Form 202r8

WORKORDER
#

15041123

PROJECT NAME		RMV 137-27 landfarm		SAMPLER				DATE				PAGE		1 of 1	
PROJECT No.				SITE ID		RMV 137-27 landfarm		TURNAROUND		5 day		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		WPX Energy		BILL TO COMPANY		WPX Energy		DRO + GRO BTX PAHs listed in 910-1 EC, SAR, pH							
SEND REPORT TO		Blaney		INVOICE ATTN TO		Karolina Blaney; Leo Braun									
ADDRESS				ADDRESS		1058 Co Rd 215									
CITY / STATE / ZIP				CITY / STATE / ZIP		Parachure CO 81635									
PHONE				PHONE		970-683-2295									
FAX				FAX											
E-MAIL		Karolina.blaney@wpxenergy.com;		E-MAIL		Karolina.blaney@wpxenergy.com; leo.braun@wpxenergy.com									
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
1	RMV 137-27 landfarm	~ S	4/16/2015	8:30	1			x	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:	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
Karolina Blaney	Karolina Blaney	4/16/2015	17:00
M	M	4-16	17:20
W M	W M	4-16	17:25
Kathy Wierenga	Kathy Wierenga	4/18/15	1000

From: (616) 298-1033
 Nick Martinez
 ALS Environmental
 127 E. 1st Street

Origin ID: RLA



PARACHUTE, CO 81635

Ship Date: 17APR15
 ActWgt: 80.0 LB
 CAD: 2264840/NET3610

Dims: 24 X 15 X 15 IN

SHIP TO: (616) 399-6070

BILL SENDER

sample receiving
 ALS Laboratory Group
 3352 128TH AVE

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 041715-1
 Invoice #
 PO # Parachute
 Dept #

SATURDAY 12:00P
 PRIORITY OVERNIGHT

TRK# 7734 0127 3610

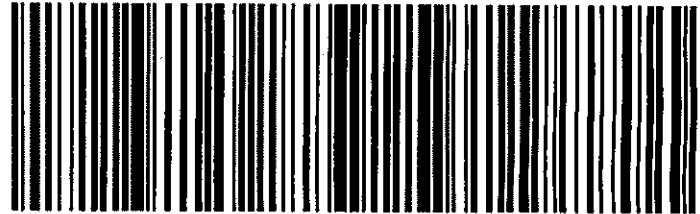
8281

49424

MI-US

GRR

X0 HLMA



537J28FC5EE4B

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. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations of sales, income interest, profit, attorney's fees, ALS Parachute Custody Seal, loss, including intrinsic value of the package, loss direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized d actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, preci Time 1700 Date 4-17 er items listed in our Service Guide. Written claims must be filed within strict time limits, see

Name

Sample Receipt Checklist

Client Name: **WPX**

Date/Time Received: **18-Apr-15 10:00**

Work Order: **15041123**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

20-Apr-15
Date

Reviewed by: Chad Whelton
eSignature

20-Apr-15
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): 3.0 C SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 4/20/2015 11:27:51 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:



08-Apr-2015

Karolina Blaney
WPX Energy Rocky Mountain, LLC
1058 Country Rd 215
Parachute, CO 81635

Re: **RMV 137-27 Backgrounds**

Work Order: **1504060**

Dear Karolina,

ALS Environmental received 5 samples on 01-Apr-2015 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 16.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: WPX Energy Rocky Mountain, LLC
Project: RMV 137-27 Backgrounds
Work Order: 1504060

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1504060-01	RMV 137-27-B-1	Soil		3/31/2015 09:20	4/1/2015 10:00	<input type="checkbox"/>
1504060-02	RMV 137-27-B-2	Soil		3/31/2015 09:25	4/1/2015 10:00	<input type="checkbox"/>
1504060-03	RMV 137-27-B-3	Soil		3/31/2015 09:30	4/1/2015 10:00	<input type="checkbox"/>
1504060-04	RMV 137-27-B-4	Soil		3/31/2015 09:40	4/1/2015 10:00	<input type="checkbox"/>
1504060-05	RMV 137-27-B-5	Soil		3/31/2015 09:35	4/1/2015 10:00	<input type="checkbox"/>

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
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:** 08-Apr-15**Client:** WPX Energy Rocky Mountain, LLC**Project:** RMV 137-27 Backgrounds**Work Order:** 1504060**Sample ID:** RMV 137-27-B-1**Lab ID:** 1504060-01**Collection Date:** 3/31/2015 09:20 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	5.2		SW846 6010C 0.36	mg/Kg-dry	Prep: SW3050B / 4/3/15 1	Analyst: JEC 4/3/2015 05:00 PM
MOISTURE						
Moisture	1.8		E160.3M 0.050	% of sample	1	Analyst: EVB 4/3/2015 02:40 PM

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

ALS Group USA, Corp**Date:** 08-Apr-15**Client:** WPX Energy Rocky Mountain, LLC**Project:** RMV 137-27 Backgrounds**Work Order:** 1504060**Sample ID:** RMV 137-27-B-2**Lab ID:** 1504060-02**Collection Date:** 3/31/2015 09:25 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	8.7		SW846 6010C 0.41	mg/Kg-dry	1	Prep: SW3050B / 4/3/15 Analyst: JEC 4/3/2015 05:06 PM
MOISTURE						
Moisture	3.3		E160.3M 0.050	% of sample	1	Analyst: EVB 4/3/2015 02:40 PM

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

ALS Group USA, Corp**Date:** 08-Apr-15**Client:** WPX Energy Rocky Mountain, LLC**Project:** RMV 137-27 Backgrounds**Work Order:** 1504060**Sample ID:** RMV 137-27-B-3**Lab ID:** 1504060-03**Collection Date:** 3/31/2015 09:30 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 4/3/15	Analyst: JEC
Arsenic	11		0.39	mg/Kg-dry	1	4/3/2015 05:11 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	3.6		0.050	% of sample	1	4/3/2015 02:40 PM

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

ALS Group USA, Corp**Date:** 08-Apr-15**Client:** WPX Energy Rocky Mountain, LLC**Project:** RMV 137-27 Backgrounds**Work Order:** 1504060**Sample ID:** RMV 137-27-B-4**Lab ID:** 1504060-04**Collection Date:** 3/31/2015 09:40 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	5.0		SW846 6010C 0.33	mg/Kg-dry	Prep: SW3050B / 4/3/15 1	Analyst: JEC 4/3/2015 05:17 PM
MOISTURE						
Moisture	1.4		E160.3M 0.050	% of sample	1	Analyst: EVB 4/3/2015 02:40 PM

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

ALS Group USA, Corp

Date: 08-Apr-15

Client: WPX Energy Rocky Mountain, LLC
Project: RMV 137-27 Backgrounds
Sample ID: RMV 137-27-B-5
Collection Date: 3/31/2015 09:35 AM

Work Order: 1504060
Lab ID: 1504060-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	4.2		SW846 6010C 0.35	mg/Kg-dry	Prep: SW3050B / 4/3/15 1	Analyst: JEC 4/3/2015 05:39 PM
SOLUBLE CATIONS FOR SAR						
Calcium	91		SW846 6010C 5.0	mg/L	Prep: USDA Method 20B / 4/3/15 10	Analyst: JEC 4/3/2015 11:40 AM
Magnesium	22		2.0	mg/L	10	4/3/2015 11:40 AM
Sodium	3.6		2.0	mg/L	10	4/3/2015 11:40 AM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	0.087		USDA H60 METHO 0.010	none	Prep: USDA Method 20B / 4/3/15 1	Analyst: JEC 4/3/2015
ELECTRICAL CONDUCTIVITY (SAR)						
Electrical Conductivity @ Saturation	0.74		USDA H60 METHO 0.050	mmhos/cm @2	Prep: USDA Method 20B / 4/3/15 10	Analyst: JB 4/3/2015 05:20 PM
MOISTURE						
Moisture	1.8		E160.3M 0.050	% of sample	1	Analyst: EVB 4/3/2015 02:40 PM
PH						
pH	6.5		SW9045D s.u.		Prep: EXTRACT / 4/2/15 1	Analyst: JRF 4/2/2015

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

ALS Group USA, Corp

Date: 08-Apr-15

Client: WPX Energy Rocky Mountain, LLC

Work Order: 1504060

Project: RMV 137-27 Backgrounds

QC BATCH REPORT

Batch ID: **69330**

Instrument ID **ICP2**

Method: **SW846 6010C**

DUP	Sample ID: 1504060-05BDUP					Units: mg/L	Analysis Date: 4/3/2015 11:45 AM			
Client ID: RMV 137-27-B-5	Run ID: ICP2_150403A					SeqNo: 3208646	Prep Date: 4/3/2015	DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Calcium	92.24	5.0	0	0	0	0-0	90.91	1.46		
Magnesium	23.5	2.0	0	0	0	0-0	22.33	5.08		
Sodium	3.534	2.0	0	0	0	0-0	3.554	0.561		

DUP	Sample ID: 1504060-05BDUP					Units: none	Analysis Date: 4/3/2015			
Client ID: RMV 137-27-B-5	Run ID: SAR_150403A					SeqNo: 3208669	Prep Date: 4/3/2015	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Sodium Adsorption Ratio	0.08504	0.010	0	0	0		0.0866	1.82	50	
-------------------------	---------	-------	---	---	---	--	--------	------	----	--

The following samples were analyzed in this batch:

1504060-05B

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504060
Project: RMV 137-27 Backgrounds

QC BATCH REPORT

Batch ID: **69394** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-69394-69394				Units: mg/L		Analysis Date: 4/3/2015 03:48 PM		
Client ID:		Run ID: ICP2_150403A				SeqNo: 3210956		Prep Date: 4/3/2015		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-69394-69394				Units: mg/L		Analysis Date: 4/3/2015 03:53 PM		
Client ID:		Run ID: ICP2_150403A				SeqNo: 3210959		Prep Date: 4/3/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 4.777 0.25 5 0 95.5 80-120 0

MS		Sample ID: 1504060-04AMS				Units: mg/Kg		Analysis Date: 4/3/2015 05:22 PM		
Client ID: RMV 137-27-B-4		Run ID: ICP2_150403A				SeqNo: 3210999		Prep Date: 4/3/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 11.29 0.33 6.631 4.898 96.3 75-125 0

MSD		Sample ID: 1504060-04AMSD				Units: mg/Kg		Analysis Date: 4/3/2015 05:28 PM		
Client ID: RMV 137-27-B-4		Run ID: ICP2_150403A				SeqNo: 3211000		Prep Date: 4/3/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 11.51 0.33 6.519 4.898 101 75-125 11.29 1.98 20

The following samples were analyzed in this batch:

1504060-01A	1504060-02A	1504060-03A
1504060-04A	1504060-05A	

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504060
Project: RMV 137-27 Backgrounds

QC BATCH REPORT

Batch ID: **69330** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 1504060-05B DUP				Units: mmhos/cm @25°		Analysis Date: 4/3/2015 05:20 PM		
Client ID: RMV 137-27-B-5			Run ID: WETCHEM_150403M			SeqNo: 3209707		Prep Date: 4/3/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.763	0.050	0	0	0		0.741	2.93	50	

The following samples were analyzed in this batch:

1504060-05B

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504060
Project: RMV 137-27 Backgrounds

QC BATCH REPORT

Batch ID: **69366** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-69366-69366				Units: s.u.		Analysis Date: 4/2/2015			
Client ID:				Run ID: WETCHEM_150402H				SeqNo: 3207320		Prep Date: 4/2/2015		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		3.93	0	4	0	98.2	90-110	0					

DUP		Sample ID: 1504064-23A DUP				Units: s.u.		Analysis Date: 4/2/2015		
Client ID:		Run ID: WETCHEM_150402H				SeqNo: 3207325		Prep Date: 4/2/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.94	0	0	0	0	0-0	7.84	1.27	20	

The following samples were analyzed in this batch:

1504060-05A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1504060
Project: RMV 137-27 Backgrounds

QC BATCH REPORT

Batch ID: **R160618** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R160618				Units: % of sample		Analysis Date: 4/3/2015 02:40 PM		
Client ID:		Run ID: MOIST_150403B				SeqNo: 3211840		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-R160618				Units: % of sample		Analysis Date: 4/3/2015 02:40 PM		
Client ID:		Run ID: MOIST_150403B				SeqNo: 3211838		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: 1504053-01A DUP				Units: % of sample		Analysis Date: 4/3/2015 02:40 PM		
Client ID:		Run ID: MOIST_150403B				SeqNo: 3211809		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 18.62 0.050 0 0 0 17.38 6.89 20

DUP		Sample ID: 1504054-09B DUP				Units: % of sample		Analysis Date: 4/3/2015 02:40 PM		
Client ID:		Run ID: MOIST_150403B				SeqNo: 3211815		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.46 0.050 0 0 0 5.76 5.35 20

The following samples were analyzed in this batch:

1504060-01A	1504060-02A	1504060-03A
1504060-04A	1504060-05A	

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

WORKORDER
#

1504060

PAGE

1 pf 1


DISPOSAL

By Lab or Return to Client

[illegible]

*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: <div style="text-align: center;">  </div>	QC PACKAGE (check below)	
	X	LEVEL II (Standard QC)
		LEVEL III (Std QC + forma)
		LEVEL IV (Std QC + forma + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Karolina Blaney</i>	Karolina Blaney	3/31/2015	18:00
RECEIVED BY	<i>CM</i>	<i>N.M</i>	3-21	1610
RELINQUISHED BY	<i>W</i>	<i>N.M</i>	3-21	1610
RECEIVED BY	<i>[Signature]</i>	KEITH WIERENKA	4/1/15	1000
RELINQUISHED BY				
RECEIVED BY				

3/31/2015

FedEx Ship Manager - Print Your Label(s)

From: (816) 298-1033
Nick Martinez
ALS Environmental
127 E. 1st Street

Origin ID: RILA

FedEx
Express



J151215022303uw

PARACHUTE, CO 81635

SHIP TO: (816) 399-6070
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL SENDER

HOLLAND, MI 49424

Ship Date: 31MAR15
ActWgt: 65.0 LB
CAD: 2264840/NET3610

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 033115-1
Invoice #
PO # Parachute
Dept #

2 of 2

WED - 01 APR 10:30A
PRIORITY OVERNIGHT

MP# 7732 6340 1610

0263

Mstr# 7732 6340 1583

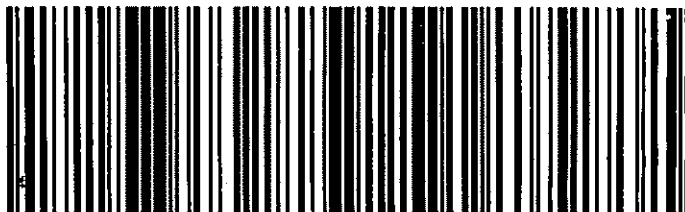
0261

XX HLMA

49424

MI-US

GRR



537J26FC5VE4B

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.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Sample Receipt Checklist

Client Name: **WPX**

Date/Time Received: **01-Apr-15 10:00**

Work Order: **1504060**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

01-Apr-15
Date

Reviewed by: Chad Whelton
eSignature

02-Apr-15
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): 4.2 C SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 4/1/2015 2:41:24 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: