

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109

DOCUMENT
#2231796

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED
2/1/2013

1. OGCC Operator Number: 96850	4. Contact Name: Karolina Blaney	Complete the Attachment Checklist
2. Name of Operator: WPX Energy Rocky Mountain LLC	Phone: 970-683-2295	
3. Address: 1058 County Road 215	Fax: 970-285-9573	
City: Parachute State: CO Zip: 81635		OP OGCC
5. API Number N/A	OGCC Facility ID Number 278696	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number TR 31-5-697	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NWNE Sec 5 T6S R97W		Surface Eqmpt Diagram
9. County: Garfield	10. Field Name: Trail Ridge	Technical Info Page X
11. Federal, Indian or State Lease Number:		Other X

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNU/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement PDOP Reading Instrument Operator's Name	
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code
Spacing order number	Unit Acreage
Unit configuration	
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From:	NUMBER
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for Inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent		<input type="checkbox"/> Report of Work Done	
Approximate Start Date:		Date Work Completed:	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)			
<input type="checkbox"/> Intent to Recombine (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal	
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste	
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans	
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:	for Spills and Releases	

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Karolina Blaney Date: 2/1/2013 Email: karolina.blaney@wpxenergy.com
Print Name: Karolina Blaney Title: Environmental Specialist.

COGCC Approved: Chris Canfield Title: FOR Date: 02/01/2013

CONDITIONS OF APPROVAL, IF ANY:

Chris Canfield
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	96850	API Number:	N/A
2. Name of Operator:	WPX Energy Rocky Mountain LLC OGCC Facility ID # 278696		
3. Well/Facility Name:	TR	Well/Facility Number:	31-5-697
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NWNE Sec 5 T6S R97W 6th pm		

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Attached with this COGCC Form 4 is the TR 31-5-697 Sampling Summary Report. The Summary Report covers activities that were proposed in the Investigation Form 4 that was submitted on June 15, 2012.
The COGCC remediation number is 5258.

Project Background

On 6/8/2011 WPX Energy initiated pit investigation and closure activities on the TR 31-5-697 (COGCC Facility ID # 278696). The pit is located in the NWNE of Section 5, Township 6S, Range 97W, 6th PM. During pit closure activities, groundwater was encountered while excavating a small area of impacted soil in the northeastern corner of the pit. On August 24, 2011, WPX Energy proposed, via sundry notice form 4, to install four groundwater monitoring wells. Following approval of the form 4 on September 7, 2011, the monitoring wells were installed on September 20 and 21, 2011. Water samples were collected from the wells on October 19, 2011 and analyzed for BTEX, Sulfate, Chloride, the Gasoline Range Organics (GRO), Diesel Range Organics (DRO), Semi-Volatile Organics for Poly Aromatic Hydrocarbons (PAH), Dissolved Metals, and the common Anions. The October 2011 sampling results along with the wellbore logs were submitted to COGCC with a sundry notice Form 4 on December 5, 2011. The four monitoring wells were re-sampled on April 9, 2012. Analytical results demonstrated that the contaminant levels had dropped substantially in the downgradient wells. The analytical results from that sampling event, along with the proposed plan to monitor natural attenuation of groundwater impacts, were submitted to COGCC on June 15, 2012. Since the Form 4 was submitted, three rounds of quarterly sampling events have been completed.

2012 Sampling Summary

Results from the quarterly sampling confirm that the contaminant levels are continuing to attenuate in the downgradient monitoring wells (MWs). The contaminant levels in MW-3 and MW-4 are consistently declining, indicating that natural attenuation is occurring. Based on the last two sampling events, MW-3 is now compliant with Table 910-1 standards for BTEX and inorganics. MW-4 is slightly above the COGCC standard of 5µg/L for benzene. In one year the benzene concentrations have decreased from 67µg/L to 9µg/L in MW-4. The contaminant levels in MW-2 were decreasing in the first three quarters of 2012 but spiked in the 4th quarter. It appears the residual contamination is confined to the area in the immediate vicinity of MW-2 and is not impacting attenuation at MWs 3 and 4. WPX will continue to sample the wells on a quarterly basis to further observe contaminant concentrations. Due to winter conditions, access to the site may not be possible until the later part of the first quarter of 2013. The wells will then be re-sampled and a better understanding of what is occurring will allow a path forward to be determined.

The analytical results are summarized in Table 1. The potentiometric maps for the September and December sampling events are included in Attachment A. The laboratory analytical reports are included in Attachment B.

Table 1

MW-1 Groundwater Analytical Results

Sample ID:		COGCC Table 910-1 Standards	MW 1	MW 1	MW 1	MW 1	MW 1
Date Sampled:			10/19/2011	4/9/2012	7/12/2012	9/18/2012	12/5/2012
Depth to Water (ft.)			22.51	22.07	NT	218.35	30.75
8260B)							
DRO	mg/L		0.18	ND	ND	ND	ND
GRO	mg/L		ND	ND	ND	ND	ND
Benzene	ug/l	5 ug/l	ND	ND	ND	ND	ND
Ethylbenzene	ug/l	700 ug/l	ND	ND	ND	ND	ND
Toluene	ug/l	560 ug/l	ND	ND	ND	ND	ND
Xylene (total)	ug/l	1400 ug/l	ND	ND	ND	ND	ND
8270C)							
1-Methylnaphthalene	ug/l		ND	ND	ND	ND	ND
2-Chloronaphthalene	ug/l		ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/l		ND	ND	ND	ND	ND
Acenaphthene	ug/l		ND	ND	ND	ND	ND
Acenaphthylene	ug/l		ND	ND	ND	ND	ND
Anthracene	ug/l		ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/l		ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/l		ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/l		ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/l		ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/l		ND	ND	ND	ND	ND
Chrysene	ug/l		ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ug/l		ND	ND	ND	ND	ND
Fluoranthene	ug/l		ND	ND	ND	ND	ND
Fluorene	ug/l		ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/l		ND	ND	ND	ND	ND
Naphthalene	ug/l		ND	ND	ND	ND	ND
Phenanthrene	ug/l		ND	ND	ND	ND	ND
Pyrene	ug/l		ND	ND	ND	ND	ND
Metals Analysis							
Calcium	mg/l		87	64	78	71	68
Iron	mg/l		0.12	ND	1.1	0.55	0.12
Magnesium	mg/l		43	32	37	34	33
Manganese	mg/l		ND	ND	0.036	0.024	0.023
Potassium	mg/l		1.1	0.64	0.9	0.98	0.74
Sodium	mg/l		68	49	56	74	51
General Chemistry							
Bromide	mg/l		0.34	0.28	0.3	0.33	0.26
Chloride	mg/l	1.25 x bkgd	42	52	45	47	41
Nitrogen, Nitrate	mg/l		1.1	1.5	1.1	0.7	0.64
Nitrogen, Nitrite	mg/l		ND	ND	ND	ND	ND
Nitrogen, Nitrate-Nitrite			1.1	1.5	1.1	0.7	0.64
Sulfate	mg/l	1.25 x bkgd	130	110	120	130	120
Fluoride	mg/l		0.19	0.17	0.24	0.18	0.16
TDS	mg/l	1.25 x bkgd	652	624	NT	601	575

Table 1

MW-2 Groundwater Analytical Results

Sample ID:		COGCC Table 910-1 Standards	MW 2	MW 2	MW 2	MW 2	MW 2
Date Sampled:			10/19/2011	4/9/2012	7/12/2012	9/18/2012	12/5/2012
Depth to Water (ft.)			26.41	25.87	NT	28.35	30.75
8260B)							
DRO	mg/L		1.1	1.6	ND	3.4	120
GRO	mg/L		7	4.8	2.5	10	28
Benzene	ug/l	5 ug/l	120	70	98	63	110
Ethylbenzene	ug/l	700 ug/l	92	58	56	84	590
Toluene	ug/l	560 ug/l	2.2	ND	2.6	ND	36
Xylene (total)	ug/l	1400 ug/l	1600	1200	470	1400	17,000
8270C)							
1-Methylnaphthalene	ug/l		7.5	ND	ND	ND	230
2-Chloronaphthalene	ug/l		ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/l		13	ND	ND	ND	600
Acenaphthene	ug/l		ND	ND	ND	ND	ND
Acenaphthylene	ug/l		ND	ND	ND	ND	ND
Anthracene	ug/l		ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/l		ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/l		ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/l		ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/l		ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/l		ND	ND	ND	ND	ND
Chrysene	ug/l		ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ug/l		ND	ND	ND	ND	ND
Fluoranthene	ug/l		ND	ND	ND	ND	ND
Fluorene	ug/l		ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/l		ND	ND	ND	ND	ND
Naphthalene	ug/l		13	7	ND	5.6	230
Phenanthrene	ug/l		ND	ND	ND	ND	ND
Pyrene	ug/l		ND	ND	ND	ND	ND
Metals Analysis							
Calcium	mg/l		7.7	54	71	46	59
Iron	mg/l		ND	0.13	0.44	0.098	0.2
Magnesium	mg/l		39	28	34	29	30
Manganese	mg/l		0.95	0.47	0.53	0.092	0.45
Potassium	mg/l		1.2	0.79	1.6	0.66	0.98
Sodium	mg/l		85	59	83	150	73
General Chemistry							
Bromide	mg/l		0.41	0.34	0.45	0.47	0.47
Chloride	mg/l	1.25 x bkgd	53	45	53	61	54
Nitrogen, Nitrate	mg/l		0.047	0.18	ND	ND	ND
Nitrogen, Nitrite	mg/l		ND	ND	ND	ND	ND
Nitrogen, Nitrate-Nitrite			0.047	0.1	ND	ND	ND
Sulfate	mg/l	1.25 x bkgd	67	74	26	35	28
Fluoride	mg/l		0.19	0.18	0.27	0.21	0.2
TDS	mg/l	1.25 x bkgd	618	627	NT	640	607

Table 1

MW-3 Groundwater Analytical Results

Sample ID:		COGCC Table 910-1 Standards	MW 3 10/19/2011	MW 3 4/9/2012	MW 3 7/12/2012	MW 3 9/18/2012	MW 3 12/5/2012
Date Sampled:							
Depth to Water (ft.)			33.38	33.02	NT	33.04	34.3
8260B)							
DRO	mg/L		40	1.1	ND	1.5	2
GRO	mg/L		4.8	3	1.4	1.8	1.7
Benzene	ug/l	5 ug/l	55	25	8.1	4.4	ND
Ethylbenzene	ug/l	700 ug/l	97	95	28	12	7.1
Toluene	ug/l	560 ug/l	ND	ND	ND	ND	ND
Xylene (total)	ug/l	1400 ug/l	600	520	140	100	84
8270C)							
1-Methylnaphthalene	ug/l		ND	ND	ND	ND	5.7
2-Chloronaphthalene	ug/l		ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/l		ND	ND	ND	ND	11
Acenaphthene	ug/l		ND	ND	ND	ND	ND
Acenaphthylene	ug/l		ND	ND	ND	ND	ND
Anthracene	ug/l		ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/l		ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/l		ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/l		ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/l		ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/l		ND	ND	ND	ND	ND
Chrysene	ug/l		ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ug/l		ND	ND	ND	ND	ND
Fluoranthene	ug/l		ND	ND	ND	ND	ND
Fluorene	ug/l		ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/l		ND	ND	ND	ND	ND
Naphthalene	ug/l		ND	ND	ND	ND	ND
Phenanthrene	ug/l		ND	ND	ND	ND	ND
Pyrene	ug/l		ND	ND	ND	ND	ND
Metals Analysis							
Calcium	mg/l		79	99	87	75	69
Iron	mg/l		0.12	1.1	0.53	0.64	0.18
Magnesium	mg/l		37	42	36	35	33
Manganese	mg/l		1.7	3.2	1.9	0.61	2.5
Potassium	mg/l		1.1	1.6	1.7	1	0.74
Sodium	mg/l		89	130	81	59	52
General Chemistry							
Bromide	mg/l		0.55	2.5	0.68	0.36	0.31
Chloride	mg/l	1.25 x bkgd	72	300	95	45	38
Nitrogen, Nitrate	mg/l		ND	ND	ND	ND	ND
Nitrogen, Nitrite	mg/l		ND	ND	ND	ND	ND
Nitrogen, Nitrate-Nitrite			ND	ND	ND	ND	ND
Sulfate	mg/l	1.25 x bkgd	61	7.1	39	110	110
Fluoride	mg/l		0.22	0.15	0.23	0.17	0.16
TDS	mg/l	1.25 x bkgd	640	1,190	NT	603	581

Table 1

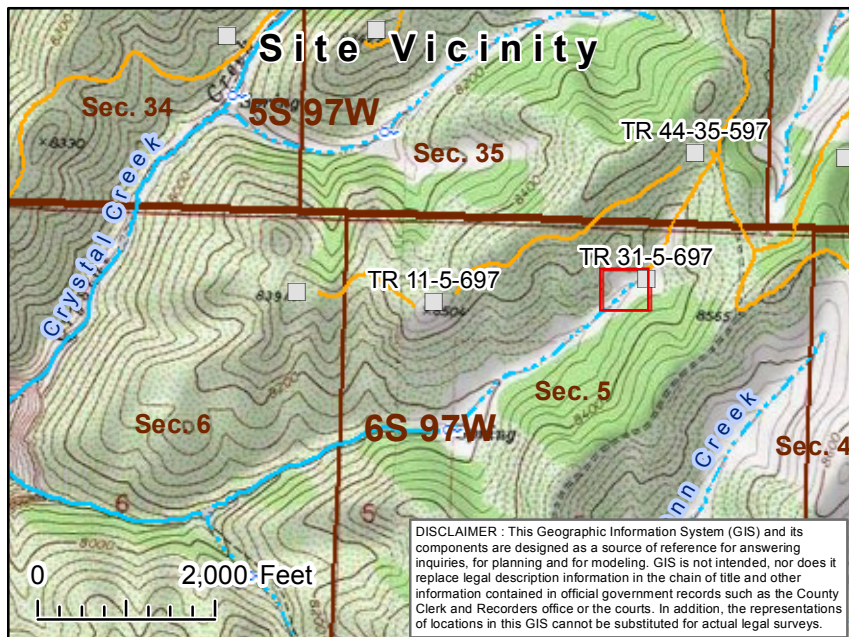
MW-4 Groundwater Analytical Results



Sample ID:		COGCC	MW 4	MW 4	MW 4	MW 4	MW 4
Date Sampled:		Table 910-1 Standards	10/19/2011	4/9/2012	7/12/2012	9/18/2012	12/5/2012
Depth to Water (ft.)			28.83	27.56	NT	32.74	33.02
8260B)							
DRO	mg/L		3.1	0.9	7.3	0.87	1.3
GRO	mg/L		4.7	2.3	1.6	1.1	0.34
Benzene	ug/l	5 ug/l	67	17	27	16	9
Ethylbenzene	ug/l	700 ug/l	96	72	44	13	2.4
Toluene	ug/l	560 ug/l	ND	ND	ND	ND	ND
Xylene (total)	ug/l	1400 ug/l	470	160	130	44	7.8
8270C)							
1-Methylnaphthalene	ug/l		6.6	ND	ND	ND	ND
2-Chloronaphthalene	ug/l		ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/l		8.4	ND	ND	ND	ND
Acenaphthene	ug/l		ND	ND	ND	ND	ND
Acenaphthylene	ug/l		ND	ND	ND	ND	ND
Anthracene	ug/l		ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/l		ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/l		ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/l		ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/l		ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/l		ND	ND	ND	ND	ND
Chrysene	ug/l		ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ug/l		ND	ND	ND	ND	ND
Fluoranthene	ug/l		ND	ND	ND	ND	ND
Fluorene	ug/l		ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/l		ND	ND	ND	ND	ND
Naphthalene	ug/l		5.9	ND	ND	ND	ND
Phenanthrene	ug/l		ND	ND	ND	ND	ND
Pyrene	ug/l		ND	ND	ND	ND	ND
Metals Analysis							
Calcium	mg/l		78	74	79	80	68
Iron	mg/l		ND	ND	0.17	ND	0.091
Magnesium	mg/l		37	34	35	34	31
Manganese	mg/l		1.7	1.6	1.8	0.92	1.3
Potassium	mg/l		1.1	0.84	0.98	0.79	0.77
Sodium	mg/l		100	87	82	100	71
General Chemistry							
Bromide	mg/l		0.47	0.84	0.38	0.48	0.45
Chloride	mg/l	1.25 x bkgd	63	75	64	61	52
Nitrogen, Nitrate	mg/l		ND	ND	ND	ND	ND
Nitrogen, Nitrite	mg/l		ND	ND	ND	ND	ND
Nitrogen, Nitrate-Nitrite			ND	ND	ND	ND	ND
Sulfate	mg/l	1.25 x bkgd	2.7	10	12	49	49
Fluoride	mg/l		0.2	0.18	0.23	0.16	0.16
TDS	mg/l	1.25 x bkgd	623	689	NT	634	601

Attachment A

Potentiometric Maps









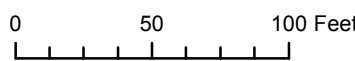
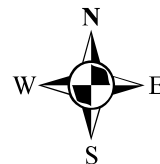
September 2012 Potentiometric Map

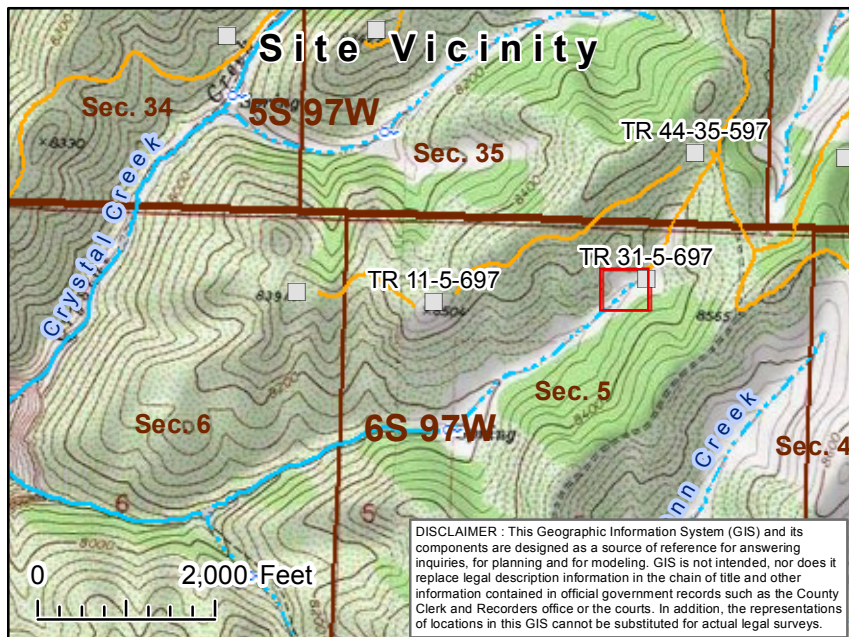
Location: TR 31-5-697

WPX Energy Rocky Mountain, LLC.

Legend

-  Monitoring Well
-  Williams Access Roads
- Hydrographic Features**
 -  Perennial Stream
 -  Intermittent Stream
- PLSS**
 -  Township
 -  Section











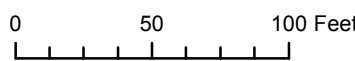
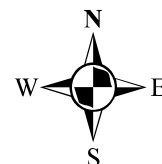
December 2012 Potentiometric Map

Location: TR 31-5-697

WPX Energy Rocky Mountain, LLC

Legend

-  Monitoring Well
-  Williams Access Roads
- PLSS**
-  Township
-  Section
- Hydrographic Features**
-  Perennial Stream
-  Intermittent Stream



Attachment B

Laboratory Analytical Reports



25-Jul-2012

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

Re: **WPX TR 31-5 7/12/12**

Work Order: **1207433**

Dear Mark,

ALS Environmental received 4 samples on 17-Jul-2012 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,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX TR 31-5 7/12/12
Work Order: 1207433

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>
1207433-01	MW 1	Water		7/12/2012	7/17/2012	<input type="checkbox"/>
1207433-02	MW 2	Water		7/12/2012	7/17/2012	<input type="checkbox"/>
1207433-03	MW 3	Water		7/12/2012	7/17/2012	<input type="checkbox"/>
1207433-04	MW 4	Water		7/12/2012	7/17/2012	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX TR 31-5 7/12/12
Work Order: 1207433

Case Narrative

Batch R107327 samples for Nitrite in this work order were received after the hold time had expired. Results should be considered estimated for Nitrite.

Batch R107489 sample MW 1 MSD recovery for Sulfate was below control limits, however the amount of Sulfate in the parent sample was 4x the amount spiked. No qualification is required for Sulfate.

Batch R107540A sample 1207433-04A had a high surrogate recovery due to matrix interference. The results for BTEX may be biased slightly high.

Batch R107613A sample MW 3 MS recoveries for Manganese and Sodium were below control limits, however the amount of Manganese and Sodium in the parent sample was 4x the amount spiked. No qualification is required for these elements.

Batch R107683 sample MW 3 MS/MSD recoveries for Calcium were above control limits, however the amount of Calcium in the parent sample was 4x the amount spiked. No qualification is required for this element.

Client: HRL Compliance Solutions
Project: WPX TR 31-5 7/12/12
WorkOrder: 1207433

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 25-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 7/12/12

Sample ID: MW 1

Collection Date: 7/12/2012

Work Order: 1207433

Lab ID: 1207433-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 7/19/2012	Analyst: CW
DRO (C10-C28)	ND		0.35	mg/L	1	7/19/2012 08:30 PM
Surr: 4-Terphenyl-d14	44.0		21-90	%REC	1	7/19/2012 08:30 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: CW
GRO (C6-C10)	ND		0.20	mg/L	1	7/18/2012 10:07 PM
Surr: Toluene-d8	93.6		70-130	%REC	1	7/18/2012 10:07 PM
METALS BY ICP-MS (DISSOLVED)						
			SW6020A			Analyst: RH
Calcium	78		0.50	mg/L	1	7/24/2012 05:17 PM
Iron	1.1		0.080	mg/L	1	7/23/2012 06:16 PM
Magnesium	37		0.20	mg/L	1	7/23/2012 06:16 PM
Manganese	0.036		0.0050	mg/L	1	7/23/2012 06:16 PM
Potassium	0.90		0.20	mg/L	1	7/23/2012 06:16 PM
Sodium	56		0.20	mg/L	1	7/23/2012 06:16 PM
POLYNUCLEAR AROMATIC HYDROCARBONS						
			SW8270		Prep Date: 7/18/2012	Analyst: RM
1-Methylnaphthalene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
2-Chloronaphthalene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
2-Methylnaphthalene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Acenaphthene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Acenaphthylene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Anthracene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Chrysene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Fluoranthene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Fluorene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Naphthalene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Phenanthrene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Pyrene	ND		5.0	µg/L	1	7/19/2012 02:11 PM
Surr: 2-Fluorobiphenyl	32.9		20-122	%REC	1	7/19/2012 02:11 PM
Surr: 4-Terphenyl-d14	55.5		22-172	%REC	1	7/19/2012 02:11 PM
Surr: Nitrobenzene-d5	42.9		8-115	%REC	1	7/19/2012 02:11 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260			Analyst: AK
Benzene	ND		1.0	µg/L	1	7/21/2012 09:16 AM

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

ALS Group USA, Corp

Date: 25-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 7/12/12

Sample ID: MW 1

Collection Date: 7/12/2012

Work Order: 1207433

Lab ID: 1207433-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	ND		1.0	µg/L	1	7/21/2012 09:16 AM
m,p-Xylene	ND		2.0	µg/L	1	7/21/2012 09:16 AM
o-Xylene	ND		1.0	µg/L	1	7/21/2012 09:16 AM
Toluene	ND		1.0	µg/L	1	7/21/2012 09:16 AM
Xylenes, Total	ND		3.0	µg/L	1	7/21/2012 09:16 AM
Surr: 1,2-Dichloroethane-d4	92.8		70-120	%REC	1	7/21/2012 09:16 AM
Surr: 4-Bromofluorobenzene	101		75-120	%REC	1	7/21/2012 09:16 AM
Surr: Dibromofluoromethane	97.4		85-115	%REC	1	7/21/2012 09:16 AM
Surr: Toluene-d8	104		85-120	%REC	1	7/21/2012 09:16 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.30		0.10	mg/L	1	7/19/2012 12:24 PM
Chloride	45		5.0	mg/L	5	7/19/2012 04:24 PM
Fluoride	0.24		0.10	mg/L	1	7/19/2012 12:24 PM
Sulfate	120		5.0	mg/L	5	7/19/2012 04:24 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: EE
Nitrogen, Nitrite	ND	H	0.020	mg/L	1	7/17/2012 10:00 AM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	1.1		0.020	mg/L	1	7/19/2012 08:21 AM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	1.1		0.020	mg/L	1	7/19/2012 08:21 AM

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

ALS Group USA, Corp

Date: 25-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 7/12/12

Sample ID: MW 2

Collection Date: 7/12/2012

Work Order: 1207433

Lab ID: 1207433-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 7/19/2012	Analyst: CW
DRO (C10-C28)	ND		0.10	mg/L	1	7/19/2012 08:59 PM
Surr: 4-Terphenyl-d14	58.9		21-90	%REC	1	7/19/2012 08:59 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: CW
GRO (C6-C10)	2.5		0.20	mg/L	1	7/18/2012 10:32 PM
Surr: Toluene-d8	94.6		70-130	%REC	1	7/18/2012 10:32 PM
METALS BY ICP-MS (DISSOLVED)						
			SW6020A			Analyst: RH
Calcium	71		0.50	mg/L	1	7/24/2012 05:22 PM
Iron	0.44		0.080	mg/L	1	7/23/2012 06:22 PM
Magnesium	34		0.20	mg/L	1	7/23/2012 06:22 PM
Manganese	0.53		0.0050	mg/L	1	7/23/2012 06:22 PM
Potassium	1.6		0.20	mg/L	1	7/23/2012 06:22 PM
Sodium	83		0.20	mg/L	1	7/23/2012 06:22 PM
POLYNUCLEAR AROMATIC HYDROCARBONS						
			SW8270		Prep Date: 7/18/2012	Analyst: RM
1-Methylnaphthalene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
2-Chloronaphthalene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
2-Methylnaphthalene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Acenaphthene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Acenaphthylene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Anthracene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Chrysene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Fluoranthene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Fluorene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Naphthalene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Phenanthrene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Pyrene	ND		5.0	µg/L	1	7/19/2012 03:06 PM
Surr: 2-Fluorobiphenyl	34.9		20-122	%REC	1	7/19/2012 03:06 PM
Surr: 4-Terphenyl-d14	58.9		22-172	%REC	1	7/19/2012 03:06 PM
Surr: Nitrobenzene-d5	44.0		8-115	%REC	1	7/19/2012 03:06 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260			Analyst: BG
Benzene	98		5.0	µg/L	5	7/22/2012 06:07 PM

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

ALS Group USA, Corp

Date: 25-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 7/12/12

Sample ID: MW 2

Collection Date: 7/12/2012

Work Order: 1207433

Lab ID: 1207433-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	56		5.0	µg/L	5	7/22/2012 06:07 PM
m,p-Xylene	450		10	µg/L	5	7/22/2012 06:07 PM
o-Xylene	15		5.0	µg/L	5	7/22/2012 06:07 PM
Toluene	2.6		2.0	µg/L	5	7/22/2012 06:07 PM
Xylenes, Total	470		15	µg/L	5	7/22/2012 06:07 PM
Surr: 1,2-Dichloroethane-d4	101		70-120	%REC	5	7/22/2012 06:07 PM
Surr: 4-Bromofluorobenzene	101		75-120	%REC	5	7/22/2012 06:07 PM
Surr: Dibromofluoromethane	99.6		85-115	%REC	5	7/22/2012 06:07 PM
Surr: Toluene-d8	100		85-120	%REC	5	7/22/2012 06:07 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.45		0.10	mg/L	1	7/19/2012 01:24 PM
Chloride	53		2.0	mg/L	2	7/19/2012 05:24 PM
Fluoride	0.27		0.10	mg/L	1	7/19/2012 01:24 PM
Sulfate	26		1.0	mg/L	1	7/19/2012 01:24 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: EE
Nitrogen, Nitrite	ND	H	0.020	mg/L	1	7/17/2012 10:00 AM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	7/19/2012 08:21 AM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	ND		0.020	mg/L	1	7/19/2012 08:21 AM

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

ALS Group USA, Corp

Date: 25-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 7/12/12

Sample ID: MW 3

Collection Date: 7/12/2012

Work Order: 1207433

Lab ID: 1207433-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 7/19/2012	Analyst: CW
DRO (C10-C28)	ND		1.2	mg/L	1	7/19/2012 09:28 PM
Surr: 4-Terphenyl-d14	48.9		21-90	%REC	1	7/19/2012 09:28 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	1.4		0.20	mg/L	1	7/18/2012 10:57 PM
Surr: Toluene-d8	102		70-130	%REC	1	7/18/2012 10:57 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	87		0.50	mg/L	1	7/24/2012 05:27 PM
Iron	0.53		0.080	mg/L	1	7/23/2012 06:28 PM
Magnesium	36		0.20	mg/L	1	7/23/2012 06:28 PM
Manganese	1.9		0.050	mg/L	10	7/23/2012 05:32 PM
Potassium	1.7		0.20	mg/L	1	7/23/2012 06:28 PM
Sodium	81		0.20	mg/L	1	7/23/2012 06:28 PM
POLYNUCLEAR AROMATIC HYDROCARBONS			SW8270		Prep Date: 7/18/2012	Analyst: RM
1-Methylnaphthalene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
2-Chloronaphthalene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
2-Methylnaphthalene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Acenaphthene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Acenaphthylene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Anthracene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Chrysene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Fluoranthene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Fluorene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Naphthalene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Phenanthrene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Pyrene	ND		5.0	µg/L	1	7/19/2012 03:34 PM
Surr: 2-Fluorobiphenyl	38.5		20-122	%REC	1	7/19/2012 03:34 PM
Surr: 4-Terphenyl-d14	56.7		22-172	%REC	1	7/19/2012 03:34 PM
Surr: Nitrobenzene-d5	48.5		8-115	%REC	1	7/19/2012 03:34 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	8.1		1.0	µg/L	1	7/22/2012 06:31 PM

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

ALS Group USA, Corp

Date: 25-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 7/12/12

Sample ID: MW 3

Collection Date: 7/12/2012

Work Order: 1207433

Lab ID: 1207433-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	28		1.0	µg/L	1	7/22/2012 06:31 PM
m,p-Xylene	140		2.0	µg/L	1	7/22/2012 06:31 PM
o-Xylene	0.81		0.60	µg/L	1	7/22/2012 06:31 PM
Toluene	ND		1.0	µg/L	1	7/22/2012 06:31 PM
Xylenes, Total	140		3.0	µg/L	1	7/22/2012 06:31 PM
Surr: 1,2-Dichloroethane-d4	102		70-120	%REC	1	7/22/2012 06:31 PM
Surr: 4-Bromofluorobenzene	106		75-120	%REC	1	7/22/2012 06:31 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	7/22/2012 06:31 PM
Surr: Toluene-d8	110		85-120	%REC	1	7/22/2012 06:31 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.68		0.10	mg/L	1	7/19/2012 01:44 PM
Chloride	95		4.0	mg/L	4	7/19/2012 05:44 PM
Fluoride	0.23		0.10	mg/L	1	7/19/2012 01:44 PM
Sulfate	39		1.0	mg/L	1	7/19/2012 01:44 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: EE
Nitrogen, Nitrite	ND	H	0.020	mg/L	1	7/17/2012 10:00 AM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	7/19/2012 08:21 AM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	ND		0.020	mg/L	1	7/19/2012 08:21 AM

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

ALS Group USA, Corp

Date: 25-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 7/12/12

Sample ID: MW 4

Collection Date: 7/12/2012

Work Order: 1207433

Lab ID: 1207433-04

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 7/19/2012	Analyst: CW
DRO (C10-C28)	7.3		0.35	mg/L	1	7/19/2012 09:57 PM
Surr: 4-Terphenyl-d14	65.8		21-90	%REC	1	7/19/2012 09:57 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	1.6		0.20	mg/L	1	7/18/2012 11:22 PM
Surr: Toluene-d8	113		70-130	%REC	1	7/18/2012 11:22 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	79		0.50	mg/L	1	7/24/2012 05:33 PM
Iron	0.17		0.080	mg/L	1	7/23/2012 06:34 PM
Magnesium	35		0.20	mg/L	1	7/23/2012 06:34 PM
Manganese	1.8		0.0050	mg/L	1	7/23/2012 06:34 PM
Potassium	0.98		0.20	mg/L	1	7/23/2012 06:34 PM
Sodium	82		0.20	mg/L	1	7/23/2012 06:34 PM
POLYNUCLEAR AROMATIC HYDROCARBONS			SW8270		Prep Date: 7/18/2012	Analyst: RM
1-Methylnaphthalene	ND		18	µg/L	1	7/19/2012 04:02 PM
2-Chloronaphthalene	ND		18	µg/L	1	7/19/2012 04:02 PM
2-Methylnaphthalene	ND		18	µg/L	1	7/19/2012 04:02 PM
Acenaphthene	ND		18	µg/L	1	7/19/2012 04:02 PM
Acenaphthylene	ND		18	µg/L	1	7/19/2012 04:02 PM
Anthracene	ND		18	µg/L	1	7/19/2012 04:02 PM
Benzo(a)anthracene	ND		18	µg/L	1	7/19/2012 04:02 PM
Benzo(a)pyrene	ND		18	µg/L	1	7/19/2012 04:02 PM
Benzo(b)fluoranthene	ND		18	µg/L	1	7/19/2012 04:02 PM
Benzo(g,h,i)perylene	ND		18	µg/L	1	7/19/2012 04:02 PM
Benzo(k)fluoranthene	ND		18	µg/L	1	7/19/2012 04:02 PM
Chrysene	ND		18	µg/L	1	7/19/2012 04:02 PM
Dibenzo(a,h)anthracene	ND		18	µg/L	1	7/19/2012 04:02 PM
Fluoranthene	ND		18	µg/L	1	7/19/2012 04:02 PM
Fluorene	ND		18	µg/L	1	7/19/2012 04:02 PM
Indeno(1,2,3-cd)pyrene	ND		18	µg/L	1	7/19/2012 04:02 PM
Naphthalene	ND		18	µg/L	1	7/19/2012 04:02 PM
Phenanthrene	ND		18	µg/L	1	7/19/2012 04:02 PM
Pyrene	ND		18	µg/L	1	7/19/2012 04:02 PM
Surr: 2-Fluorobiphenyl	37.1		20-122	%REC	1	7/19/2012 04:02 PM
Surr: 4-Terphenyl-d14	47.5		22-172	%REC	1	7/19/2012 04:02 PM
Surr: Nitrobenzene-d5	50.4		8-115	%REC	1	7/19/2012 04:02 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	27		1.0	µg/L	1	7/22/2012 06:55 PM

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

ALS Group USA, Corp

Date: 25-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 7/12/12

Sample ID: MW 4

Collection Date: 7/12/2012

Work Order: 1207433

Lab ID: 1207433-04

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	44		1.0	µg/L	1	7/22/2012 06:55 PM
m,p-Xylene	130		2.0	µg/L	1	7/22/2012 06:55 PM
o-Xylene	0.88		0.60	µg/L	1	7/22/2012 06:55 PM
Toluene	ND		1.0	µg/L	1	7/22/2012 06:55 PM
Xylenes, Total	130		3.0	µg/L	1	7/22/2012 06:55 PM
Surr: 1,2-Dichloroethane-d4	101		70-120	%REC	1	7/22/2012 06:55 PM
Surr: 4-Bromofluorobenzene	106		75-120	%REC	1	7/22/2012 06:55 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/22/2012 06:55 PM
Surr: Toluene-d8	127	S	85-120	%REC	1	7/22/2012 06:55 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.38		0.10	mg/L	1	7/19/2012 02:04 PM
Chloride	64		2.0	mg/L	2	7/19/2012 06:04 PM
Fluoride	0.23		0.10	mg/L	1	7/19/2012 02:04 PM
Sulfate	12		1.0	mg/L	1	7/19/2012 02:04 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: EE
Nitrogen, Nitrite	ND	H	0.020	mg/L	1	7/17/2012 10:00 AM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	7/19/2012 08:21 AM
NITROGEN, NITRATE-NITRITE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate-Nitrite	ND		0.020	mg/L	1	7/19/2012 08:21 AM

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **42424** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKW1-42424-42424				Units: mg/L		Analysis Date: 7/19/2012 06:06 PM		
Client ID:		Run ID: GC8_120719B				SeqNo: 2031563		Prep Date: 7/19/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	0.10								
Surr: 4-Terphenyl-d14	0.07038	0	0.1143	0	61.6	21-90	0			

LCS		Sample ID: DLCSW1-42424-42424				Units: mg/L		Analysis Date: 7/19/2012 06:35 PM		
Client ID:		Run ID: GC8_120719B				SeqNo: 2031564		Prep Date: 7/19/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	4.564	0.10	5.714	0	79.9	44-116	0			
Surr: 4-Terphenyl-d14	0.06875	0	0.1143	0	60.2	21-90	0			

MS		Sample ID: 1207443-02A MS				Units: mg/L		Analysis Date: 7/19/2012 07:04 PM		
Client ID:		Run ID: GC8_120719B				SeqNo: 2031565		Prep Date: 7/19/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	21.92	0.35	20	8.541	66.9	44-116	0			
Surr: 4-Terphenyl-d14	0.223	0	0.4	0	55.8	21-90	0			

MSD		Sample ID: 1207443-02A MSD				Units: mg/L		Analysis Date: 7/19/2012 07:32 PM		
Client ID:		Run ID: GC8_120719B				SeqNo: 2031566		Prep Date: 7/19/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	22.45	0.35	20	8.541	69.5	44-116	21.92	2.38	30	
Surr: 4-Terphenyl-d14	0.232	0	0.4	0	58	21-90	0.223	3.94	30	

The following samples were analyzed in this batch:

1207433-01B	1207433-02B	1207433-03B
1207433-04B		

Client: HRL Compliance Solutions
 Work Order: 1207433
 Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107402** Instrument ID **GC9** Method: **SW8015**

MBLK	Sample ID: MBLK-R107402-R107402					Units: µg/L		Analysis Date: 7/18/2012 02:54 PM		
Client ID:	Run ID: GC9_120718A				SeqNo: 2029780		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	102.4	0	100	0	102	70-130	0			

LCS	Sample ID: LCS-R107402-R107402					Units: µg/L		Analysis Date: 7/18/2012 02:30 PM		
Client ID:	Run ID: GC9_120718A				SeqNo: 2029779		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)	10210	200	10000	0	102	70-130	0			
Surr: Toluene-d8	104.1	0	100	0	104	70-130	0			

MS	Sample ID: 1207353-01A MS					Units: µg/Kg		Analysis Date: 7/18/2012 11:47 PM		
Client ID:	Run ID: GC9_120718A				SeqNo: 2030206		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)	412100	2,500	500000	0	82.4	70-130	0			
Surr: Toluene-d8	4030	0	5000	0	80.6	50-150	0			

MSD	Sample ID: 1207353-01A MSD					Units: µg/Kg		Analysis Date: 7/19/2012 12:11 PM		
Client ID:	Run ID: GC9_120718A				SeqNo: 2030207		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)	403600	2,500	500000	0	80.7	70-130	412100	2.06	30	
Surr: Toluene-d8	3938	0	5000	0	78.8	50-150	4030	2.31	30	

The following samples were analyzed in this batch:

1207433-01A	1207433-02A	1207433-03A
1207433-04A		

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

Client: HRL Compliance Solutions
 Work Order: 1207433
 Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107613A** Instrument ID **ICPMS1** Method: **SW6020A** (Dissolve)

MBLK		Sample ID: MBLK-R107613A-R107613A				Units: mg/L		Analysis Date: 7/23/2012 06:03 PM		
Client ID:		Run ID: ICPMS1_120723A				SeqNo: 2034565		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	0.02273	0.080								J
Magnesium	ND	0.20								
Manganese	0.0004047	0.0050								J
Potassium	ND	0.20								
Sodium	ND	0.20								

LCS		Sample ID: LCS-R107613A-R107613A				Units: mg/L		Analysis Date: 7/23/2012 05:57 PM		
Client ID:		Run ID: ICPMS1_120723A				SeqNo: 2034564		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.856	0.080	10	0	98.6	80-120	0			
Magnesium	9.255	0.20	10	0	92.6	80-120	0			
Manganese	0.09464	0.0050	0.1	0	94.6	80-120	0			
Potassium	9.552	0.20	10	0	95.5	80-120	0			
Sodium	9.189	0.20	10	0	91.9	80-120	0			

MS		Sample ID: 1207433-03CMS				Units: mg/L		Analysis Date: 7/23/2012 06:41 PM		
Client ID: MW 3		Run ID: ICPMS1_120723A				SeqNo: 2033874		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	11.44	0.080	10	0.5321	109	80-120	0			
Magnesium	44.76	0.20	10	35.58	91.8	80-120	0			
Manganese	2.186	0.0050	0.1	2.114	72	80-120	0			SEO
Potassium	12.61	0.20	10	1.692	109	80-120	0			
Sodium	88.24	0.20	10	81.49	67.5	80-120	0			SO

MSD		Sample ID: 1207433-03CMSD				Units: mg/L		Analysis Date: 7/23/2012 06:47 PM		
Client ID: MW 3		Run ID: ICPMS1_120723A				SeqNo: 2033878		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	11.27	0.080	10	0.5321	107	80-120	11.44	1.5	20	
Magnesium	45.49	0.20	10	35.58	99.1	80-120	44.76	1.62	20	
Manganese	2.196	0.0050	0.1	2.114	82	80-120	2.186	0.456	20	EO
Potassium	12.56	0.20	10	1.692	109	80-120	12.61	0.397	20	
Sodium	90.7	0.20	10	81.49	92.1	80-120	88.24	2.75	20	O

The following samples were analyzed in this batch:

1207433-01C	1207433-02C	1207433-03C
1207433-04C		

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107683** Instrument ID **ICPMS2** Method: **SW6020A (Dissolve)**

MS		Sample ID: 1207433-03CMS				Units: mg/L		Analysis Date: 7/24/2012 05:38 PM		
Client ID: MW 3		Run ID: ICPMS2_120724A				SeqNo: 2035210		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	100.9	0.50	10	86.72	142	80-120	0			SO

MSD		Sample ID: 1207433-03CMSD				Units: mg/L		Analysis Date: 7/24/2012 05:43 PM		
Client ID: MW 3		Run ID: ICPMS2_120724A				SeqNo: 2035211		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	101.9	0.50	10	86.72	152	80-120	100.9	0.986	20	SO

The following samples were analyzed in this batch:

1207433-01C	1207433-02C	1207433-03C
1207433-04C		

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **42391** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKW1-42391-42391				Units: µg/L		Analysis Date: 7/19/2012 02:39 PM		
Client ID:		Run ID: SVMS6_120718A				SeqNo: 2030881		Prep Date: 7/18/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	5.0								
2-Chloronaphthalene	ND	5.0								
2-Methylnaphthalene	ND	5.0								
Acenaphthene	ND	5.0								
Acenaphthylene	ND	5.0								
Anthracene	ND	5.0								
Benzo(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	5.0								
Benzo(b)fluoranthene	ND	5.0								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	5.0								
Chrysene	ND	5.0								
Dibenzo(a,h)anthracene	ND	5.0								
Fluoranthene	ND	5.0								
Fluorene	ND	5.0								
Indeno(1,2,3-cd)pyrene	ND	5.0								
Naphthalene	ND	5.0								
Phenanthrene	ND	5.0								
Pyrene	ND	5.0								
<i>Surr: 2-Fluorobiphenyl</i>	<i>37.46</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>32.9</i>	<i>20-122</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>58.1</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>51</i>	<i>22-172</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>50.01</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>43.9</i>	<i>8-115</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **42391** Instrument ID **SVMS6** Method: **SW8270**

LCS		Sample ID: SLCSW1-42391-42391				Units: µg/L		Analysis Date: 7/19/2012 12:49 PM		
Client ID:		Run ID: SVMS6_120718A				SeqNo: 2030877		Prep Date: 7/18/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	40.64	5.0	45.7	0	88.9	70-130	0			
2-Chloronaphthalene	38.06	5.0	45.7	0	83.3	70-130	0			
2-Methylnaphthalene	39.09	5.0	45.7	0	85.5	70-130	0			
Acenaphthene	40.55	5.0	45.7	0	88.7	70-130	0			
Acenaphthylene	44.3	5.0	45.7	0	96.9	70-130	0			
Anthracene	44.27	5.0	45.7	0	96.9	70-130	0			
Benzo(a)anthracene	46.35	5.0	45.7	0	101	70-130	0			
Benzo(a)pyrene	46.26	5.0	45.7	0	101	70-130	0			
Benzo(b)fluoranthene	48.69	5.0	45.7	0	107	70-130	0			
Benzo(g,h,i)perylene	43.29	5.0	45.7	0	94.7	70-130	0			
Benzo(k)fluoranthene	43.5	5.0	45.7	0	95.2	70-130	0			
Chrysene	44.39	5.0	45.7	0	97.1	70-130	0			
Dibenzo(a,h)anthracene	44.21	5.0	45.7	0	96.7	70-130	0			
Fluoranthene	43.5	5.0	45.7	0	95.2	70-130	0			
Fluorene	42.86	5.0	45.7	0	93.8	70-130	0			
Indeno(1,2,3-cd)pyrene	43.84	5.0	45.7	0	95.9	70-130	0			
Naphthalene	42.19	5.0	45.7	0	92.3	70-130	0			
Phenanthrene	44.5	5.0	45.7	0	97.4	70-130	0			
Pyrene	51.18	5.0	45.7	0	112	70-130	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>72.43</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>63.5</i>	<i>20-122</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>111.1</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>97.4</i>	<i>22-172</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>94.29</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>82.7</i>	<i>8-115</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **42391** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1207433-01B MS			Units: µg/L		Analysis Date: 7/19/2012 01:16 PM	
Client ID: MW 1				Run ID: SVMS6_120718A			SeqNo: 2030878		Prep Date: 7/18/2012	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	140.5	18	160	0	87.8	60-140	0			
2-Chloronaphthalene	131.8	18	160	0	82.4	60-140	0			
2-Methylnaphthalene	134.5	18	160	0	84.1	60-140	0			
Acenaphthene	144.8	18	160	0	90.5	60-140	0			
Acenaphthylene	157.2	18	160	0	98.3	60-140	0			
Anthracene	159.5	18	160	0	99.7	60-140	0			
Benzo(a)anthracene	165.4	18	160	0	103	60-140	0			
Benzo(a)pyrene	161.5	18	160	0	101	60-140	0			
Benzo(b)fluoranthene	169.4	18	160	0	106	60-140	0			
Benzo(g,h,i)perylene	154.1	18	160	0	96.3	60-140	0			
Benzo(k)fluoranthene	156.6	18	160	0	97.9	60-140	0			
Chrysene	157.2	18	160	0	98.3	60-140	0			
Dibenzo(a,h)anthracene	157.3	18	160	0	98.3	60-140	0			
Fluoranthene	160.7	18	160	0	100	60-140	0			
Fluorene	154.4	18	160	0	96.5	60-140	0			
Indeno(1,2,3-cd)pyrene	156.5	18	160	0	97.8	60-140	0			
Naphthalene	153	18	160	0	95.7	60-140	0			
Phenanthrene	161.8	18	160	0	101	60-140	0			
Pyrene	183.8	18	160	0	115	60-140	0			
Surr: 2-Fluorobiphenyl	243.9	0	399	0	61.1	20-122	0			
Surr: 4-Terphenyl-d14	404.4	0	399	0	101	22-172	0			
Surr: Nitrobenzene-d5	317.8	0	399	0	79.7	8-115	0			

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **42391** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 1207433-01B MSD		Units: µg/L		Analysis Date: 7/19/2012 01:44 PM		
Client ID: MW 1			Run ID: SVMS6_120718A			SeqNo: 2030879		Prep Date: 7/18/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	163.8	18	160	0	102	60-140	140.5	15.3	30	
2-Chloronaphthalene	159.5	18	160	0	99.7	60-140	131.8	19	30	
2-Methylnaphthalene	157.5	18	160	0	98.5	60-140	134.5	15.8	30	
Acenaphthene	166.4	18	160	0	104	60-140	144.8	13.9	30	
Acenaphthylene	179.8	18	160	0	112	60-140	157.2	13.4	30	
Anthracene	172.4	18	160	0	108	60-140	159.5	7.76	30	
Benzo(a)anthracene	179	18	160	0	112	60-140	165.4	7.9	30	
Benzo(a)pyrene	175.5	18	160	0	110	60-140	161.5	8.31	30	
Benzo(b)fluoranthene	166.6	18	160	0	104	60-140	169.4	1.71	30	
Benzo(g,h,i)perylene	166.2	18	160	0	104	60-140	154.1	7.59	30	
Benzo(k)fluoranthene	194.5	18	160	0	122	60-140	156.6	21.6	30	
Chrysene	167	18	160	0	104	60-140	157.2	6.07	30	
Dibenzo(a,h)anthracene	169.3	18	160	0	106	60-140	157.3	7.35	30	
Fluoranthene	175.4	18	160	0	110	60-140	160.7	8.71	30	
Fluorene	174.1	18	160	0	109	60-140	154.4	12	30	
Indeno(1,2,3-cd)pyrene	168.7	18	160	0	105	60-140	156.5	7.53	30	
Naphthalene	161.3	18	160	0	101	60-140	153	5.24	30	
Phenanthrene	177	18	160	0	111	60-140	161.8	9.02	30	
Pyrene	196.6	18	160	0	123	60-140	183.8	6.77	30	
Surr: 2-Fluorobiphenyl	275.5	0	399	0	69.1	20-122	243.9	12.2	30	
Surr: 4-Terphenyl-d14	449.8	0	399	0	113	22-172	404.4	10.6	30	
Surr: Nitrobenzene-d5	355.4	0	399	0	89.1	8-115	317.8	11.1	30	

The following samples were analyzed in this batch:

1207433-01B	1207433-02B	1207433-03B
1207433-04B		

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

Client: HRL Compliance Solutions
 Work Order: 1207433
 Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107535** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: VBLKW2-120720-R107535				Units: µg/L			Analysis Date: 7/21/2012 02:10 AM			
Client ID:		Run ID: VMS7_120720B		SeqNo: 2032194		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	20.3	0	20	0	102	70-120	0			
Surr: 4-Bromofluorobenzene	20.82	0	20	0	104	75-120	0			
Surr: Dibromofluoromethane	19.47	0	20	0	97.4	85-115	0			
Surr: Toluene-d8	20.45	0	20	0	102	85-120	0			

LCS Sample ID: VLCSW2-120720-R107535				Units: µg/L			Analysis Date: 7/21/2012 01:20 AM			
Client ID:		Run ID: VMS7_120720B		SeqNo: 2032193		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.59	1.0	20	0	108	80-120	0			
Ethylbenzene	22.81	1.0	20	0	114	75-125	0			
m,p-Xylene	45.12	2.0	40	0	113	75-130	0			
o-Xylene	22.39	1.0	20	0	112	80-120	0			
Toluene	21.98	1.0	20	0	110	75-120	0			
Xylenes, Total	67.51	3.0	60	0	113	75-130	0			
Surr: 1,2-Dichloroethane-d4	19.91	0	20	0	99.6	70-120	0			
Surr: 4-Bromofluorobenzene	20.06	0	20	0	100	75-120	0			
Surr: Dibromofluoromethane	20.46	0	20	0	102	85-115	0			
Surr: Toluene-d8	20.37	0	20	0	102	85-120	0			

MS Sample ID: 1207388-15A MS				Units: µg/L			Analysis Date: 7/21/2012 10:58 AM			
Client ID:		Run ID: VMS7_120720B		SeqNo: 2032328		Prep Date:		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	431.2	20	400	0	108	80-120	0			
Ethylbenzene	645.6	20	400	208.4	109	75-125	0			
m,p-Xylene	3113	40	800	2234	110	75-130	0			
o-Xylene	1230	20	400	789.6	110	80-120	0			
Toluene	436.2	20	400	15.6	105	75-120	0			
Xylenes, Total	4343	60	1200	3024	110	75-130	0			
Surr: 1,2-Dichloroethane-d4	365.4	0	400	0	91.4	70-120	0			
Surr: 4-Bromofluorobenzene	411.8	0	400	0	103	75-120	0			
Surr: Dibromofluoromethane	391	0	400	0	97.8	85-115	0			
Surr: Toluene-d8	416.4	0	400	0	104	85-120	0			

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107535** Instrument ID **VMS7** Method: **SW8260**

MSD		Sample ID: 1207388-15A MSD				Units: µg/L		Analysis Date: 7/21/2012 11:23 AM		
Client ID:		Run ID: VMS7_120720B				SeqNo: 2032330		Prep Date:		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	419	20	400	0	105	80-120	431.2	2.87	30	
Ethylbenzene	629.6	20	400	208.4	105	75-125	645.6	2.51	30	
m,p-Xylene	3042	40	800	2234	101	75-130	3113	2.28	30	
o-Xylene	1202	20	400	789.6	103	80-120	1230	2.32	30	
Toluene	424.2	20	400	15.6	102	75-120	436.2	2.79	30	
Xylenes, Total	4244	60	1200	3024	102	75-130	4343	2.29	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	363.2	0	400	0	90.8	70-120	365.4	0.604	30	
<i>Surr: 4-Bromofluorobenzene</i>	411	0	400	0	103	75-120	411.8	0.194	30	
<i>Surr: Dibromofluoromethane</i>	388.6	0	400	0	97.2	85-115	391	0.616	30	
<i>Surr: Toluene-d8</i>	416.6	0	400	0	104	85-120	416.4	0.048	30	

The following samples were analyzed in this batch:

1207433-01A	1207433-02A	1207433-03A
1207433-04A		

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

Client: HRL Compliance Solutions
 Work Order: 1207433
 Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107540A** Instrument ID **VMS6** Method: **SW8260**

MBLK		Sample ID: VBLKW1-120722-R107540A				Units: µg/L		Analysis Date: 7/22/2012 12:02 PM		
Client ID:		Run ID: VMS6_120722A				SeqNo: 2032498		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	20.22	0	20	0	101	70-120	0			
Surr: 4-Bromofluorobenzene	19.41	0	20	0	97	75-120	0			
Surr: Dibromofluoromethane	19.24	0	20	0	96.2	85-115	0			
Surr: Toluene-d8	19.68	0	20	0	98.4	85-120	0			

LCS		Sample ID: VLCSW1-120722-R107540A				Units: µg/L		Analysis Date: 7/22/2012 11:14 AM		
Client ID:		Run ID: VMS6_120722A				SeqNo: 2032331		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.69	1.0	20	0	103	80-120	0			
Ethylbenzene	22.83	1.0	20	0	114	75-125	0			
m,p-Xylene	45.18	2.0	40	0	113	75-130	0			
o-Xylene	22.77	1.0	20	0	114	80-120	0			
Toluene	21.11	1.0	20	0	106	75-120	0			
Xylenes, Total	67.95	3.0	60	0	113	75-130	0			
Surr: 1,2-Dichloroethane-d4	20.12	0	20	0	101	70-120	0			
Surr: 4-Bromofluorobenzene	20.52	0	20	0	103	75-120	0			
Surr: Dibromofluoromethane	20.52	0	20	0	103	85-115	0			
Surr: Toluene-d8	19.96	0	20	0	99.8	85-120	0			

MS		Sample ID: 1207615-01F MS				Units: µg/L		Analysis Date: 7/22/2012 08:56 PM		
Client ID:		Run ID: VMS6_120722A				SeqNo: 2032496		Prep Date:		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2624	100	2000	535	104	80-120	0			
Ethylbenzene	2531	100	2000	341	110	75-125	0			
m,p-Xylene	5218	200	4000	850	109	75-130	0			
o-Xylene	2560	100	2000	398	108	80-120	0			
Toluene	3132	100	2000	1121	101	75-120	0			
Xylenes, Total	7778	300	6000	1248	109	75-130	0			
Surr: 1,2-Dichloroethane-d4	2064	0	2000	0	103	70-120	0			
Surr: 4-Bromofluorobenzene	2040	0	2000	0	102	75-120	0			
Surr: Dibromofluoromethane	2047	0	2000	0	102	85-115	0			
Surr: Toluene-d8	2039	0	2000	0	102	85-120	0			

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107540A** Instrument ID **VMS6** Method: **SW8260**

MSD		Sample ID: 1207615-01F MSD				Units: µg/L		Analysis Date: 7/22/2012 09:21 PM		
Client ID:		Run ID: VMS6_120722A				SeqNo: 2032497		Prep Date:		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2541	100	2000	535	100	80-120	2624	3.21	30	
Ethylbenzene	2456	100	2000	341	106	75-125	2531	3.01	30	
m,p-Xylene	5131	200	4000	850	107	75-130	5218	1.68	30	
o-Xylene	2545	100	2000	398	107	80-120	2560	0.588	30	
Toluene	3084	100	2000	1121	98.2	75-120	3132	1.54	30	
Xylenes, Total	7676	300	6000	1248	107	75-130	7778	1.32	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1993	0	2000	0	99.6	70-120	2064	3.5	30	
<i>Surr: 4-Bromofluorobenzene</i>	1991	0	2000	0	99.6	75-120	2040	2.43	30	
<i>Surr: Dibromofluoromethane</i>	2009	0	2000	0	100	85-115	2047	1.87	30	
<i>Surr: Toluene-d8</i>	1986	0	2000	0	99.3	85-120	2039	2.63	30	

The following samples were analyzed in this batch: 1207433-02A 1207433-03A 1207433-04A

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

Client: HRL Compliance Solutions
 Work Order: 1207433
 Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107327** Instrument ID **WETCHEM** Method: **A4500-NO2 B**

MBLK	Sample ID: WBLKW1-071712-R107327					Units: mg/L		Analysis Date: 7/17/2012 10:00 AM		
Client ID:	Run ID: WETCHEM_120717D				SeqNo: 2028233		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite ND 0.020

LCS	Sample ID: WLCSW1-071712-R107327					Units: mg/L		Analysis Date: 7/17/2012 10:00 AM		
Client ID:	Run ID: WETCHEM_120717D				SeqNo: 2028234		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.2005 0.020 0.2 0 100 80-120 0

MS	Sample ID: 1207422-03C MS					Units: mg/L		Analysis Date: 7/17/2012 10:00 AM		
Client ID:	Run ID: WETCHEM_120717D				SeqNo: 2028238		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.1881 0.020 0.2 0.0141 87 75-125 0

MSD	Sample ID: 1207422-03C MSD					Units: mg/L		Analysis Date: 7/17/2012 10:00 AM		
Client ID:	Run ID: WETCHEM_120717D				SeqNo: 2028239		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.1832 0.020 0.2 0.0141 84.6 75-125 0.1881 2.64 20

The following samples were analyzed in this batch:

1207433-01C	1207433-02C	1207433-03C
1207433-04C		

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107433** Instrument ID **LACHAT2** Method: **E353.2 R2.0**

MBLK	Sample ID: WBLKW1-120719-R107433					Units: mg/L		Analysis Date: 7/19/2012 08:21 AM		
Client ID:	Run ID: LACHAT2_120719A				SeqNo: 2030364		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate ND 0.020

LCS	Sample ID: WLCSW1-120719-R107433					Units: mg/L		Analysis Date: 7/19/2012 08:21 AM		
Client ID:	Run ID: LACHAT2_120719A				SeqNo: 2030365		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 4.826 0.020 5 0 96.5 80-120 0

MS	Sample ID: 1207422-01D MS					Units: mg/L		Analysis Date: 7/19/2012 08:21 AM		
Client ID:	Run ID: LACHAT2_120719A				SeqNo: 2030369		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 4.29 0.020 5 0.01919 85.4 75-125 0

MSD	Sample ID: 1207422-01D MSD					Units: mg/L		Analysis Date: 7/19/2012 08:21 AM		
Client ID:	Run ID: LACHAT2_120719A				SeqNo: 2030370		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 4.316 0.020 5 0.01919 85.9 75-125 4.29 0.604 20

The following samples were analyzed in this batch:

1207433-01C	1207433-02C	1207433-03C
1207433-04C		

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107435** Instrument ID **LACHAT2** Method: **E353.2 R2.0**

MBLK	Sample ID: WBLKW1-120719-R107435					Units: mg/L		Analysis Date: 7/19/2012 08:21 AM		
Client ID:	Run ID: LACHAT2_120719B				SeqNo: 2030422		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate-Nitrite ND 0.020

LCS	Sample ID: WLCSW1-120719-R107435					Units: mg/L		Analysis Date: 7/19/2012 08:21 AM		
Client ID:	Run ID: LACHAT2_120719B				SeqNo: 2030423		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate-Nitrite 4.939 0.020 5 0 98.8 80-120 0

MS	Sample ID: 1207433-01C MS					Units: mg/L		Analysis Date: 7/19/2012 08:21 AM		
Client ID: MW 1	Run ID: LACHAT2_120719B				SeqNo: 2030425		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate-Nitrite 5.652 0.020 5 1.065 91.7 75-125 0

MSD	Sample ID: 1207433-01C MSD					Units: mg/L		Analysis Date: 7/19/2012 08:21 AM		
Client ID: MW 1	Run ID: LACHAT2_120719B				SeqNo: 2030426		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate-Nitrite 5.677 0.020 5 1.065 92.2 75-125 5.652 0.441 30

The following samples were analyzed in this batch:

1207433-01C	1207433-02C	1207433-03C
1207433-04C		

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

Client: HRL Compliance Solutions
 Work Order: 1207433
 Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107489** Instrument ID **IC3** Method: **SW9056**

MBLK		Sample ID: MBLK-R107489				Units: mg/L		Analysis Date: 7/19/2012 11:43 AM		
Client ID:		Run ID: IC3_120719B				SeqNo: 2031417		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	ND	0.10								
Chloride	0.4186	1.0								J
Fluoride	ND	0.10								
Sulfate	ND	1.0								

LCS		Sample ID: LCS-R107489				Units: mg/L		Analysis Date: 7/19/2012 12:03 PM		
Client ID:		Run ID: IC3_120719B				SeqNo: 2031418		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.836	0.10	4	0	95.9	88-113	0			
Chloride	19.26	1.0	20	0	96.3	88-107	0			
Fluoride	3.717	0.10	4	0	92.9	86-111	0			
Sulfate	19.51	1.0	20	0	97.5	85-110	0			

MS		Sample ID: 1207433-01C MS				Units: mg/L		Analysis Date: 7/19/2012 12:44 PM		
Client ID: MW 1		Run ID: IC3_120719B				SeqNo: 2031420		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.921	0.10	4	0.2994	116	75-125	0			
Fluoride	4.236	0.10	4	0.2426	99.8	75-125	0			

MS		Sample ID: 1207433-01C MS				Units: mg/L		Analysis Date: 7/19/2012 04:44 PM		
Client ID: MW 1		Run ID: IC3_120719B				SeqNo: 2031430		Prep Date:		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	64.31	5.0	20	44.91	97	75-125	0			
Sulfate	141.7	5.0	20	124.4	86.3	75-125	0			O

MSD		Sample ID: 1207433-01C MSD				Units: mg/L		Analysis Date: 7/19/2012 01:04 PM		
Client ID: MW 1		Run ID: IC3_120719B				SeqNo: 2031421		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.256	0.10	4	0.2994	98.9	75-125	4.921	14.5	20	
Fluoride	3.869	0.10	4	0.2426	90.7	75-125	4.236	9.06	20	

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

Client: HRL Compliance Solutions
Work Order: 1207433
Project: WPX TR 31-5 7/12/12

QC BATCH REPORT

Batch ID: **R107489** Instrument ID **IC3** Method: **SW9056**

MSD		Sample ID: 1207433-01C MSD				Units: mg/L		Analysis Date: 7/19/2012 05:04 PM		
Client ID: MW 1		Run ID: IC3_120719B				SeqNo: 2031432		Prep Date:		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	62.95	5.0	20	44.91	90.2	75-125	64.31	2.13	20	
Sulfate	138.4	5.0	20	124.4	69.6	75-125	141.7	2.39	20	SO

The following samples were analyzed in this batch:

1207433-01C	1207433-02C	1207433-03C
1207433-04C		

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
#

1207433

PROJECT NAME		WPX TR 31-5		SAMPLER		Luke Miley		DATE		7/16/2012		PAGE		1 of 1	
PROJECT No.				SITE ID		WPX TR 31-5		TURNAROUND		Std. 5 Day		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HCSI		BILL TO COMPANY		WPX Energy		DRO							
SEND REPORT TO		Mark Mumby		INVOICE ATTN TO		Karolina Blaney		GRO							
ADDRESS		2385 F 1/2 Road		ADDRESS		1058 County Road 215		BTEX							
CITY / STATE / ZIP		Grand Junction, CO 81505		CITY / STATE / ZIP		Parachute, CO 81635		Semi Vols.							
PHONE		970-243-3271		PHONE		970-243-3271		Dissolved Metals - Cations							
FAX		970-243-3280		FAX		970-243-3280		PAH							
E-MAIL		mmumby@hrlcomp.com		E-MAIL		mmumby@hrlcomp.com		Anions							
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
01	MW 1	W	7/12/2012		9	4°C		x	x	x	x	x	x	x	
02	MW 2	W	7/12/2012		9	4°C		x	x	x	x	x	x	x	
03	MW 3	W	7/12/2012		9	4°C		x	x	x	x	x	x	x	
04	MW 4	W	7/12/2012		9	4°C		x	x	x	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
RELINQUISHED BY			
RECEIVED BY	Diane F. Sha	7/17/12	0930
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 17-Jul-12 00:00

Work Order: 1207433

Received by: DS

Checklist completed by Diane Shaw 17-Jul-12
eSignature Date

Reviewed by: Alex Csaszar 17-Jul-12
eSignature Date

Matrices: Water

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"/>	
Temperature(s)/Thermometer(s):	<u>4.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>7/17/2012 2:33:28 PM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			
Login Notes:			

=====

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

FedEx **Express** **NEW Package**
US Airbill

FedEx
Tracking
Number

8001 2141 8543

0200 Form
ID No.

FedEx Retrieval Copy

1 From

Date 7/16/12

Sender's
Name

Reed Wal

Phone

970 243-3271

Company

HCST

Address

2385 F1/2 RD

City

Grand Junction

State

CO

ZIP

81506

2 Your Internal Billing Reference

3 To

Recipient's
Name

Sample Receiving

Phone

616 399-6070

Company

ALS Group

Address

3352 128th AVE

Address

Use 1



ALS Environmental

3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

4 Express Package Service

* To most locations.

NOTE: Service order has changed. Please select carefully.

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

Next Business Day

☐

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

☐

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

☐

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

2 or 3 Business Days

☐

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

☐

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

☐

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

5 Packaging

* Declared value limit \$500.

☐

FedEx Envelope*

☐

FedEx Pak*

☐

**FedEx
Box**

☐

**FedEx
Tube**

☐

Other

6 Special Handling and Delivery Signature Options

☐

SATURDAY DELIVERY

☐

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

☐

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

☐

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

Yes

As per attached

☐

Yes

Shipper's Declaration

☐

Div. Ice

☐

No

Yes

As per attached

☐

Yes

Shipper's Declaration

☐

Div. Ice

CUSTODY SEAL

Date:

7/16/2012

Time:

16:45

Name:

Mark E. Mumber

Company:

HRC Compliance Solutions

Seal Broken By:

Date:

☐

Check



8001 2141 8543

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

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27-Sep-2012

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

Re: **WPX TR 31-5 Monitor Well Pad 9/18/12**

Work Order: **1209480**

Dear Mark,

ALS Environmental received 4 samples on 19-Sep-2012 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.

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 31.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

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

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX TR 31-5 Monitor Well Pad 9/18/12
Work Order: 1209480

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>
1209480-01	MW 1	Water		9/18/2012 12:05	9/19/2012 10:00	<input type="checkbox"/>
1209480-02	MW 2	Water		9/18/2012 12:45	9/19/2012 10:00	<input type="checkbox"/>
1209480-03	MW 3	Water		9/18/2012 13:20	9/19/2012 10:00	<input type="checkbox"/>
1209480-04	MW 4	Water		9/18/2012 14:00	9/19/2012 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX TR 31-5 Monitor Well Pad 9/18/12
Work Order: 1209480

Case Narrative

Batch 43605 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Batch R110118 sample 1209480-02. 1209480-03 and 1209480-03 BTEX surrogate recoveries for Toluene were above control limits. Toluene was ND in all samples. No data requires qualification. Sample MW 2 MS/MSD recoveries for Benzene were below control limits. The corresponding result in the parent sample may be biased low for Benzene. No other compounds require qualification as the amount of each compound found in the parent samples was greater than 4x the spiked amount.

Batch R110176 sample MW 2 MS/MSD recoveries for m.p-Xylene were above control limits due to matrix interference. The corresponding result in the parent sample may be biased high.

Batch R110287A MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions
Project: WPX TR 31-5 Monitor Well Pad 9/18/12
WorkOrder: 1209480

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 27-Sep-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 9/18/12

Work Order: 1209480

Sample ID: MW 1

Lab ID: 1209480-01

Collection Date: 9/18/2012 12:05 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 9/20/2012	Analyst: CW
DRO (C10-C28)	ND		0.10	mg/L	1	9/21/2012 06:49 PM
Surr: 4-Terphenyl-d14	52.5		21-90	%REC	1	9/21/2012 06:49 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: CW
GRO (C6-C10)	ND		0.20	mg/L	1	9/21/2012 05:45 PM
Surr: Toluene-d8	116		70-130	%REC	1	9/21/2012 05:45 PM
METALS BY ICP-MS (DISSOLVED)						
			SW6020A			Analyst: RH
Calcium	71		0.50	mg/L	1	9/26/2012 01:59 PM
Iron	0.55		0.080	mg/L	1	9/26/2012 01:59 PM
Magnesium	34		0.20	mg/L	1	9/26/2012 01:59 PM
Manganese	0.024		0.0050	mg/L	1	9/26/2012 01:59 PM
Potassium	0.98		0.20	mg/L	1	9/26/2012 01:59 PM
Sodium	74		0.20	mg/L	1	9/26/2012 01:59 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 9/20/2012	Analyst: HL
Acenaphthene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Acenaphthylene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Anthracene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Chrysene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Fluoranthene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Fluorene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Naphthalene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Phenanthrene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Pyrene	ND		5.0	µg/L	1	9/20/2012 08:25 PM
Surr: 2,4,6-Tribromophenol	55.6		32-115	%REC	1	9/20/2012 08:25 PM
Surr: 2-Fluorobiphenyl	63.9		32-100	%REC	1	9/20/2012 08:25 PM
Surr: 2-Fluorophenol	35.6		22-59	%REC	1	9/20/2012 08:25 PM
Surr: 4-Terphenyl-d14	54.4		23-112	%REC	1	9/20/2012 08:25 PM
Surr: Nitrobenzene-d5	67.5		31-93	%REC	1	9/20/2012 08:25 PM
Surr: Phenol-d6	25.2		13-36	%REC	1	9/20/2012 08:25 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	9/22/2012 11:35 AM

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

ALS Group USA, Corp

Date: 27-Sep-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 9/18/12

Sample ID: MW 1

Collection Date: 9/18/2012 12:05 PM

Work Order: 1209480

Lab ID: 1209480-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	ND		1.0	µg/L	1	9/22/2012 11:35 AM
m,p-Xylene	ND		2.0	µg/L	1	9/22/2012 11:35 AM
o-Xylene	ND		1.0	µg/L	1	9/22/2012 11:35 AM
Toluene	ND		1.0	µg/L	1	9/22/2012 11:35 AM
Xylenes, Total	ND		3.0	µg/L	1	9/22/2012 11:35 AM
Surr: 1,2-Dichloroethane-d4	98.8		70-120	%REC	1	9/22/2012 11:35 AM
Surr: 4-Bromofluorobenzene	101		75-120	%REC	1	9/22/2012 11:35 AM
Surr: Dibromofluoromethane	99.5		85-115	%REC	1	9/22/2012 11:35 AM
Surr: Toluene-d8	99.8		85-120	%REC	1	9/22/2012 11:35 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.33		0.10	mg/L	1	9/25/2012 05:03 PM
Chloride	47		8.0	mg/L	8	9/25/2012 09:26 PM
Fluoride	0.18		0.10	mg/L	1	9/25/2012 05:03 PM
Sulfate	130		8.0	mg/L	8	9/25/2012 09:26 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JB
Nitrogen, Nitrite	ND		0.020	mg/L	1	9/19/2012 02:30 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	0.70		0.020	mg/L	1	9/19/2012 12:28 PM

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

ALS Group USA, Corp

Date: 27-Sep-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 9/18/12

Sample ID: MW 2

Collection Date: 9/18/2012 12:45 PM

Work Order: 1209480

Lab ID: 1209480-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	3.4		0.10	mg/L	1	9/21/2012 07:16 PM
Surr: 4-Terphenyl-d14	53.4		21-90	%REC	1	9/21/2012 07:16 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	10		0.20	mg/L	1	9/21/2012 12:25 PM
Surr: Toluene-d8	119		70-130	%REC	1	9/21/2012 12:25 PM
METALS BY ICP-MS (DISSOLVED)						
Calcium	46		0.50	mg/L	1	9/26/2012 02:04 PM
Iron	0.098		0.080	mg/L	1	9/26/2012 02:04 PM
Magnesium	29		0.20	mg/L	1	9/26/2012 02:04 PM
Manganese	0.092		0.0050	mg/L	1	9/26/2012 02:04 PM
Potassium	0.66		0.20	mg/L	1	9/26/2012 02:04 PM
Sodium	150		0.20	mg/L	1	9/26/2012 02:04 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Acenaphthylene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Anthracene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Chrysene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Fluoranthene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Fluorene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Naphthalene	5.6		5.0	µg/L	1	9/20/2012 08:53 PM
Phenanthrene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Pyrene	ND		5.0	µg/L	1	9/20/2012 08:53 PM
Surr: 2,4,6-Tribromophenol	47.1		32-115	%REC	1	9/20/2012 08:53 PM
Surr: 2-Fluorobiphenyl	50.5		32-100	%REC	1	9/20/2012 08:53 PM
Surr: 2-Fluorophenol	27.1		22-59	%REC	1	9/20/2012 08:53 PM
Surr: 4-Terphenyl-d14	46.2		23-112	%REC	1	9/20/2012 08:53 PM
Surr: Nitrobenzene-d5	54.5		31-93	%REC	1	9/20/2012 08:53 PM
Surr: Phenol-d6	20.4		13-36	%REC	1	9/20/2012 08:53 PM
VOLATILE ORGANIC COMPOUNDS						
Benzene	63		1.0	µg/L	1	9/22/2012 11:59 AM

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

ALS Group USA, Corp

Date: 27-Sep-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 9/18/12

Sample ID: MW 2

Collection Date: 9/18/2012 12:45 PM

Work Order: 1209480

Lab ID: 1209480-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	84		20	µg/L	20	9/25/2012 07:11 AM
m,p-Xylene	1,400		40	µg/L	20	9/25/2012 07:11 AM
o-Xylene	78		20	µg/L	20	9/25/2012 07:11 AM
Toluene	ND		1.0	µg/L	1	9/22/2012 11:59 AM
Xylenes, Total	1,400		60	µg/L	20	9/25/2012 07:11 AM
Surr: 1,2-Dichloroethane-d4	98.0		70-120	%REC	1	9/22/2012 11:59 AM
Surr: 1,2-Dichloroethane-d4	102		70-120	%REC	20	9/25/2012 07:11 AM
Surr: 4-Bromofluorobenzene	95.6		75-120	%REC	1	9/22/2012 11:59 AM
Surr: 4-Bromofluorobenzene	101		75-120	%REC	20	9/25/2012 07:11 AM
Surr: Dibromofluoromethane	99.3		85-115	%REC	20	9/25/2012 07:11 AM
Surr: Dibromofluoromethane	95.0		85-115	%REC	1	9/22/2012 11:59 AM
Surr: Toluene-d8	98.6		85-120	%REC	20	9/25/2012 07:11 AM
Surr: Toluene-d8	331	S	85-120	%REC	1	9/22/2012 11:59 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.47		0.10	mg/L	1	9/25/2012 05:23 PM
Chloride	61		4.0	mg/L	4	9/25/2012 03:18 PM
Fluoride	0.21		0.10	mg/L	1	9/25/2012 05:23 PM
Sulfate	35		4.0	mg/L	4	9/25/2012 03:18 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JB
Nitrogen, Nitrite	ND		0.020	mg/L	1	9/19/2012 02:30 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	9/19/2012 12:28 PM

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

ALS Group USA, Corp

Date: 27-Sep-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 9/18/12

Sample ID: MW 3

Collection Date: 9/18/2012 01:20 PM

Work Order: 1209480

Lab ID: 1209480-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 9/20/2012	Analyst: CW
DRO (C10-C28)	1.5		0.10	mg/L	1	9/21/2012 07:43 PM
Surr: 4-Terphenyl-d14	51.3		21-90	%REC	1	9/21/2012 07:43 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: CW
GRO (C6-C10)	1.8		0.20	mg/L	1	9/21/2012 12:50 PM
Surr: Toluene-d8	112		70-130	%REC	1	9/21/2012 12:50 PM
METALS BY ICP-MS (DISSOLVED)						
			SW6020A			Analyst: RH
Calcium	75		0.50	mg/L	1	9/26/2012 02:09 PM
Iron	0.64		0.080	mg/L	1	9/26/2012 02:09 PM
Magnesium	35		0.20	mg/L	1	9/26/2012 02:09 PM
Manganese	0.61		0.0050	mg/L	1	9/26/2012 02:09 PM
Potassium	1.0		0.20	mg/L	1	9/26/2012 02:09 PM
Sodium	59		0.20	mg/L	1	9/26/2012 02:09 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 9/20/2012	Analyst: HL
Acenaphthene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Acenaphthylene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Anthracene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Chrysene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Fluoranthene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Fluorene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Naphthalene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Phenanthrene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Pyrene	ND		5.0	µg/L	1	9/20/2012 09:21 PM
Surr: 2,4,6-Tribromophenol	46.3		32-115	%REC	1	9/20/2012 09:21 PM
Surr: 2-Fluorobiphenyl	42.7		32-100	%REC	1	9/20/2012 09:21 PM
Surr: 2-Fluorophenol	25.2		22-59	%REC	1	9/20/2012 09:21 PM
Surr: 4-Terphenyl-d14	49.1		23-112	%REC	1	9/20/2012 09:21 PM
Surr: Nitrobenzene-d5	45.7		31-93	%REC	1	9/20/2012 09:21 PM
Surr: Phenol-d6	18.7		13-36	%REC	1	9/20/2012 09:21 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260			Analyst: BG
Benzene	4.4		1.0	µg/L	1	9/22/2012 12:23 PM

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

ALS Group USA, Corp

Date: 27-Sep-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 9/18/12

Sample ID: MW 3

Collection Date: 9/18/2012 01:20 PM

Work Order: 1209480

Lab ID: 1209480-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	12		1.0	µg/L	1	9/22/2012 12:23 PM
m,p-Xylene	98		2.0	µg/L	1	9/22/2012 12:23 PM
o-Xylene	1.9		1.0	µg/L	1	9/22/2012 12:23 PM
Toluene	ND		1.0	µg/L	1	9/22/2012 12:23 PM
Xylenes, Total	100		3.0	µg/L	1	9/22/2012 12:23 PM
Surr: 1,2-Dichloroethane-d4	97.5		70-120	%REC	1	9/22/2012 12:23 PM
Surr: 4-Bromofluorobenzene	105		75-120	%REC	1	9/22/2012 12:23 PM
Surr: Dibromofluoromethane	102		85-115	%REC	1	9/22/2012 12:23 PM
Surr: Toluene-d8	137	S	85-120	%REC	1	9/22/2012 12:23 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.36		0.10	mg/L	1	9/25/2012 06:24 PM
Chloride	45		8.0	mg/L	8	9/26/2012 12:08 AM
Fluoride	0.17		0.10	mg/L	1	9/25/2012 06:24 PM
Sulfate	110		8.0	mg/L	8	9/26/2012 12:08 AM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JB
Nitrogen, Nitrite	ND		0.020	mg/L	1	9/19/2012 02:30 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	9/19/2012 12:28 PM

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

ALS Group USA, Corp

Date: 27-Sep-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 9/18/12

Work Order: 1209480

Sample ID: MW 4

Lab ID: 1209480-04

Collection Date: 9/18/2012 02:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	0.87		SW8015M		Prep Date: 9/20/2012	Analyst: CW
Surr: 4-Terphenyl-d14	63.9		0.10	mg/L	1	9/21/2012 08:10 PM
			21-90	%REC	1	9/21/2012 08:10 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	1.1		SW8015			Analyst: CW
Surr: Toluene-d8	117		0.20	mg/L	1	9/21/2012 01:14 PM
			70-130	%REC	1	9/21/2012 01:14 PM
METALS BY ICP-MS (DISSOLVED)						
Calcium	80		SW6020A			Analyst: RH
Iron	ND		0.50	mg/L	1	9/26/2012 02:14 PM
Magnesium	34		0.080	mg/L	1	9/26/2012 02:14 PM
Manganese	0.92		0.20	mg/L	1	9/26/2012 02:14 PM
Potassium	0.79		0.0050	mg/L	1	9/26/2012 02:14 PM
Sodium	100		0.20	mg/L	1	9/26/2012 02:14 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 9/20/2012	Analyst: HL
Acenaphthylene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Anthracene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Chrysene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Fluoranthene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Fluorene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Naphthalene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Phenanthrene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Pyrene	ND		5.0	µg/L	1	9/20/2012 09:48 PM
Surr: 2,4,6-Tribromophenol	54.8		32-115	%REC	1	9/20/2012 09:48 PM
Surr: 2-Fluorobiphenyl	57.6		32-100	%REC	1	9/20/2012 09:48 PM
Surr: 2-Fluorophenol	37.1		22-59	%REC	1	9/20/2012 09:48 PM
Surr: 4-Terphenyl-d14	65.9		23-112	%REC	1	9/20/2012 09:48 PM
Surr: Nitrobenzene-d5	62.2		31-93	%REC	1	9/20/2012 09:48 PM
Surr: Phenol-d6	27.6		13-36	%REC	1	9/20/2012 09:48 PM
VOLATILE ORGANIC COMPOUNDS						
Benzene	16		SW8260			Analyst: BG
			1.0	µg/L	1	9/22/2012 12:47 PM

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

ALS Group USA, Corp

Date: 27-Sep-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 9/18/12

Sample ID: MW 4

Collection Date: 9/18/2012 02:00 PM

Work Order: 1209480

Lab ID: 1209480-04

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	13		1.0	µg/L	1	9/22/2012 12:47 PM
m,p-Xylene	44		2.0	µg/L	1	9/22/2012 12:47 PM
o-Xylene	ND		1.0	µg/L	1	9/22/2012 12:47 PM
Toluene	ND		1.0	µg/L	1	9/22/2012 12:47 PM
Xylenes, Total	44		3.0	µg/L	1	9/22/2012 12:47 PM
Surr: 1,2-Dichloroethane-d4	95.4		70-120	%REC	1	9/22/2012 12:47 PM
Surr: 4-Bromofluorobenzene	107		75-120	%REC	1	9/22/2012 12:47 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	9/22/2012 12:47 PM
Surr: Toluene-d8	121	S	85-120	%REC	1	9/22/2012 12:47 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.48		0.10	mg/L	1	9/25/2012 04:02 PM
Chloride	61		5.0	mg/L	5	9/25/2012 08:26 PM
Fluoride	0.16		0.10	mg/L	1	9/25/2012 04:02 PM
Sulfate	49		5.0	mg/L	5	9/25/2012 08:26 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JB
Nitrogen, Nitrite	ND		0.020	mg/L	1	9/19/2012 02:30 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	9/19/2012 12:28 PM

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

ALS Group USA, Corp

Date: 27-Sep-12

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1209480

Project: WPX TR 31-5 Monitor Well Pad 9/18/12

Batch ID: **43606**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKW1-43606-43606				Units: mg/L		Analysis Date: 9/21/2012 04:05 PM		
Client ID:		Run ID: GC8_120921B				SeqNo: 2086404		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	0.10								
Surr: 4-Terphenyl-d14	0.03805	0	0.05	0	76.1	21-90	0			

LCS		Sample ID: DLCSW1-43606-43606				Units: mg/L		Analysis Date: 9/21/2012 04:33 PM		
Client ID:		Run ID: GC8_120921B				SeqNo: 2086405		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	3.527	0.10	5	0	70.5	44-116	0			
Surr: 4-Terphenyl-d14	0.03657	0	0.05	0	73.1	21-90	0			

MS		Sample ID: 1209142-26D MS				Units: mg/L		Analysis Date: 9/21/2012 05:00 PM		
Client ID:		Run ID: GC8_120921B				SeqNo: 2086406		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	36.64	1.0	50	3.829	65.6	44-116	0			
Surr: 4-Terphenyl-d14	0.4108	0	0.5	0	82.2	21-90	0			

MSD		Sample ID: 1209142-26D MSD				Units: mg/L		Analysis Date: 9/21/2012 05:27 PM		
Client ID:		Run ID: GC8_120921B				SeqNo: 2086407		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	31.7	1.0	50	3.829	55.8	44-116	36.64	14.4	30	
Surr: 4-Terphenyl-d14	0.3699	0	0.5	0	74	21-90	0.4108	10.5	30	

The following samples were analyzed in this batch:

1209480-01B	1209480-02B	1209480-03B
1209480-04B		

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R110083** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: GBLK1-120921-R110083				Units: µg/L		Analysis Date: 9/21/2012 11:12 AM		
Client ID:		Run ID: GC10_120921A				SeqNo: 2086221		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								
<i>Surr: Toluene-d8</i>	<i>119.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>119</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: GLCS1-120921-R110083				Units: µg/L		Analysis Date: 9/21/2012 10:47 AM		
Client ID:		Run ID: GC10_120921A				SeqNo: 2086220		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)	11030	200	10000	0	110	70-130	0			
<i>Surr: Toluene-d8</i>	<i>106.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1209482-02B MS				Units: µg/L		Analysis Date: 9/21/2012 08:14 PM		
Client ID:		Run ID: GC10_120921A				SeqNo: 2086385		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)	10230	200	10000	0	102	70-130	0			
<i>Surr: Toluene-d8</i>	<i>106.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>			

MSD		Sample ID: 1209482-02B MSD				Units: µg/L		Analysis Date: 9/21/2012 08:39 PM		
Client ID:		Run ID: GC10_120921A				SeqNo: 2086386		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)	9995	200	10000	0	100	70-130	10230	2.28	30	
<i>Surr: Toluene-d8</i>	<i>106.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>106.1</i>	<i>0.16</i>	<i>30</i>	

The following samples were analyzed in this batch:

1209480-01A	1209480-02A	1209480-03A
1209480-04A		

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R110287A** Instrument ID **ICPMS2** Method: **SW6020A** **(Dissolve)**

MS		Sample ID: 1209493-01DMS				Units: mg/L		Analysis Date: 9/26/2012 01:49 PM		
Client ID:		Run ID: ICPMS2_120926A				SeqNo: 2090952		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	45.93	0.50	10	34.7	112	75-125	0			
Iron	12.31	0.080	10	0.07182	122	75-125	0			
Magnesium	17.04	0.20	10	4.787	123	75-125	0			
Manganese	0.3888	0.0050	0.1	0.2758	113	75-125	0			
Potassium	13.09	0.20	10	0.885	122	75-125	0			
Sodium	15.04	0.20	10	2.56	125	75-125	0			

MSD		Sample ID: 1209493-01DMSD				Units: mg/L		Analysis Date: 9/26/2012 01:54 PM		
Client ID:		Run ID: ICPMS2_120926A				SeqNo: 2090953		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	46.22	0.50	10	34.7	115	75-125	45.93	0.629	20	
Iron	12.9	0.080	10	0.07182	128	75-125	12.31	4.68	20	S
Magnesium	17.7	0.20	10	4.787	129	75-125	17.04	3.8	20	S
Manganese	0.3863	0.0050	0.1	0.2758	110	75-125	0.3888	0.645	20	
Potassium	13.62	0.20	10	0.885	127	75-125	13.09	3.97	20	S
Sodium	15.78	0.20	10	2.56	132	75-125	15.04	4.8	20	S

The following samples were analyzed in this batch:

1209480-01C	1209480-02C	1209480-03C
1209480-04C		

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **43605** Instrument ID **SVMS7** Method: **SW8270**

MBLK		Sample ID: SBLKW1-43605-43605				Units: µg/L		Analysis Date: 9/20/2012 07:02 PM		
Client ID:		Run ID: SVMS7_120920A				SeqNo: 2085792		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	5.0								
Acenaphthylene	ND	5.0								
Anthracene	ND	5.0								
Benzo(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	5.0								
Benzo(b)fluoranthene	ND	5.0								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	5.0								
Chrysene	ND	5.0								
Dibenzo(a,h)anthracene	ND	5.0								
Fluoranthene	ND	5.0								
Fluorene	ND	5.0								
Indeno(1,2,3-cd)pyrene	ND	5.0								
Naphthalene	ND	5.0								
Phenanthrene	ND	5.0								
Pyrene	ND	5.0								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>29.54</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>59.1</i>	<i>38-115</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>28.86</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>57.7</i>	<i>32-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>18.2</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>36.4</i>	<i>22-59</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>37.55</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>75.1</i>	<i>23-112</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>30.58</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>61.2</i>	<i>31-93</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>10.57</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>21.1</i>	<i>13-36</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **43605** Instrument ID **SVMS7** Method: **SW8270**

LCS		Sample ID: SLCSW1-43605-43605				Units: µg/L		Analysis Date: 9/20/2012 05:12 PM		
Client ID:		Run ID: SVMS7_120920A				SeqNo: 2085788		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	15.25	5.0	20	0	76.2	45-110	0			
Acenaphthylene	15.15	5.0	20	0	75.8	50-105	0			
Anthracene	17.19	5.0	20	0	86	55-110	0			
Benzo(a)anthracene	16.43	5.0	20	0	82.2	55-110	0			
Benzo(a)pyrene	16.61	5.0	20	0	83	55-110	0			
Benzo(b)fluoranthene	15.68	5.0	20	0	78.4	45-120	0			
Benzo(g,h,i)perylene	16.03	5.0	20	0	80.2	40-125	0			
Benzo(k)fluoranthene	16.32	5.0	20	0	81.6	45-125	0			
Chrysene	17.49	5.0	20	0	87.4	55-110	0			
Dibenzo(a,h)anthracene	16.61	5.0	20	0	83	40-125	0			
Fluoranthene	17.92	5.0	20	0	89.6	55-115	0			
Fluorene	16.68	5.0	20	0	83.4	50-110	0			
Indeno(1,2,3-cd)pyrene	16.1	5.0	20	0	80.5	45-125	0			
Naphthalene	13.94	5.0	20	0	69.7	40-100	0			
Phenanthrene	16.38	5.0	20	0	81.9	50-115	0			
Pyrene	15.99	5.0	20	0	80	50-130	0			
<i>Surr: 2,4,6-Tribromophenol</i>	<i>34.15</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>68.3</i>	<i>38-115</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>33.91</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>67.8</i>	<i>32-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>18.73</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>37.5</i>	<i>22-59</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>41.93</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>83.9</i>	<i>23-112</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>35.21</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>70.4</i>	<i>31-93</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>11.06</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>22.1</i>	<i>13-36</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **43605** Instrument ID **SVMS7** Method: **SW8270**

MS				Sample ID: 1209142-26D MS			Units: µg/L		Analysis Date: 9/20/2012 05:40 PM	
Client ID:				Run ID: SVMS7_120920A			SeqNo: 2085789		Prep Date: 9/20/2012	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	117.4	50	200	0	58.7	45-110	0			
Acenaphthylene	117.6	50	200	0	58.8	50-105	0			
Anthracene	141.2	50	200	0	70.6	55-110	0			
Benzo(a)anthracene	134.1	50	200	0	67	55-110	0			
Benzo(a)pyrene	136.1	50	200	0	68	55-110	0			
Benzo(b)fluoranthene	132.3	50	200	0	66.2	45-120	0			
Benzo(g,h,i)perylene	134.9	50	200	0	67.4	40-125	0			
Benzo(k)fluoranthene	126.6	50	200	0	63.3	45-125	0			
Chrysene	141.9	50	200	0	71	55-110	0			
Dibenzo(a,h)anthracene	137.9	50	200	0	69	40-125	0			
Fluoranthene	149.1	50	200	0	74.6	55-115	0			
Fluorene	130.8	50	200	0	65.4	50-110	0			
Indeno(1,2,3-cd)pyrene	133	50	200	0	66.5	45-125	0			
Naphthalene	108.3	50	200	0.99	53.7	40-100	0			
Phenanthrene	135.9	50	200	0	68	50-115	0			
Pyrene	131.2	50	200	0	65.6	50-130	0			
<i>Surr: 2,4,6-Tribromophenol</i>	276.6	0	500	0	55.3	38-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	265.2	0	500	0	53	32-100	0			
<i>Surr: 2-Fluorophenol</i>	147.9	0	500	0	29.6	22-59	0			
<i>Surr: 4-Terphenyl-d14</i>	367.8	0	500	0	73.6	23-112	0			
<i>Surr: Nitrobenzene-d5</i>	274.7	0	500	0	54.9	31-93	0			
<i>Surr: Phenol-d6</i>	84.1	0	500	0	16.8	13-36	0			

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **43605** Instrument ID **SVMS7** Method: **SW8270**

MSD				Sample ID: 1209142-26D MSD				Units: µg/L		Analysis Date: 9/20/2012 06:07 PM	
Client ID:			Run ID: SVMS7_120920A			SeqNo: 2085790		Prep Date: 9/20/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	145.6	50	200	0	72.8	45-110	117.4	21.4	30		
Acenaphthylene	146.3	50	200	0	73.2	50-105	117.6	21.8	30		
Anthracene	172.2	50	200	0	86.1	55-110	141.2	19.8	30		
Benzo(a)anthracene	159.2	50	200	0	79.6	55-110	134.1	17.1	30		
Benzo(a)pyrene	164.8	50	200	0	82.4	55-110	136.1	19.1	30		
Benzo(b)fluoranthene	146.7	50	200	0	73.4	45-120	132.3	10.3	30		
Benzo(g,h,i)perylene	166.8	50	200	0	83.4	40-125	134.9	21.1	30		
Benzo(k)fluoranthene	173.4	50	200	0	86.7	45-125	126.6	31.2	30	R	
Chrysene	171.6	50	200	0	85.8	55-110	141.9	18.9	30		
Dibenzo(a,h)anthracene	170.2	50	200	0	85.1	40-125	137.9	21	30		
Fluoranthene	179.5	50	200	0	89.8	55-115	149.1	18.5	30		
Fluorene	161.7	50	200	0	80.8	50-110	130.8	21.1	30		
Indeno(1,2,3-cd)pyrene	166.4	50	200	0	83.2	45-125	133	22.3	30		
Naphthalene	137.2	50	200	0.99	68.1	40-100	108.3	23.5	30		
Phenanthrene	167	50	200	0	83.5	50-115	135.9	20.5	30		
Pyrene	158.6	50	200	0	79.3	50-130	131.2	18.9	30		
Surr: 2,4,6-Tribromophenol	342.4	0	500	0	68.5	38-115	276.6	21.3	40		
Surr: 2-Fluorobiphenyl	325.1	0	500	0	65	32-100	265.2	20.3	40		
Surr: 2-Fluorophenol	233.9	0	500	0	46.8	22-59	147.9	45	40	R	
Surr: 4-Terphenyl-d14	416.3	0	500	0	83.3	23-112	367.8	12.4	40		
Surr: Nitrobenzene-d5	341.1	0	500	0	68.2	31-93	274.7	21.6	40		
Surr: Phenol-d6	155.5	0	500	0	31.1	13-36	84.1	59.6	40	R	

The following samples were analyzed in this batch:

1209480-01B	1209480-02B	1209480-03B
1209480-04B		

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R110118** Instrument ID **VMS6** Method: **SW8260**

MBLK				Sample ID: VBLKW2-120921-R110118				Units: µg/L			Analysis Date: 9/22/2012 06:18 AM			
Client ID:				Run ID: VMS6_120921B				SeqNo: 2086696			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	ND	1.0												
Ethylbenzene	ND	1.0												
m,p-Xylene	ND	2.0												
o-Xylene	ND	1.0												
Toluene	ND	1.0												
Xylenes, Total	ND	3.0												
Surr: 1,2-Dichloroethane-d4	21.24	0	20	0	106	70-120		0						
Surr: 4-Bromofluorobenzene	20.73	0	20	0	104	75-120		0						
Surr: Dibromofluoromethane	20.35	0	20	0	102	85-115		0						
Surr: Toluene-d8	20.75	0	20	0	104	85-120		0						

LCS				Sample ID: VLCSW2-120921-R110118				Units: µg/L			Analysis Date: 9/22/2012 05:29 AM		
Client ID:			Run ID: VMS6_120921B				SeqNo: 2086695			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	19.49	1.0	20	0	97.4	80-120	0						
Ethylbenzene	19.65	1.0	20	0	98.2	75-125	0						
m,p-Xylene	39.85	2.0	40	0	99.6	75-130	0						
o-Xylene	19.76	1.0	20	0	98.8	80-120	0						
Toluene	19.49	1.0	20	0	97.4	75-120	0						
Xylenes, Total	59.61	3.0	60	0	99.4	75-130	0						
Surr: 1,2-Dichloroethane-d4	19.8	0	20	0	99	70-120	0						
Surr: 4-Bromofluorobenzene	20.2	0	20	0	101	75-120	0						
Surr: Dibromofluoromethane	20.12	0	20	0	101	85-115	0						
Surr: Toluene-d8	19.93	0	20	0	99.6	85-120	0						

MS					Sample ID: 1209480-02A MS		Units: µg/L		Analysis Date: 9/22/2012 03:13 PM		
Client ID: MW 2			Run ID: VMS6_120921B			SeqNo: 2087562		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	70.05	1.0	20	62.96	35.4	80-120		0		S	
Ethylbenzene	134.7	1.0	20	133.6	5.55	75-125		0		SEO	
m,p-Xylene	1498	2.0	40	1543	-112	75-130		0		SEO	
o-Xylene	136.3	1.0	20	116.3	99.8	80-120		0		EO	
Toluene	16.95	1.0	20	0	84.8	75-120		0			
Xylenes, Total	1634	3.0	60	1659	-41.2	75-130		0		SEO	
Surr: 1,2-Dichloroethane-d4	19.24	0	20	0	96.2	70-120		0			
Surr: 4-Bromofluorobenzene	21.3	0	20	0	106	75-120		0			
Surr: Dibromofluoromethane	19.94	0	20	0	99.7	85-115		0			
Surr: Toluene-d8	48.11	0	20	0	241	85-120		0		S	

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R110118** Instrument ID **VMS6** Method: **SW8260**

MSD		Sample ID: 1209480-02A MSD				Units: µg/L		Analysis Date: 9/22/2012 03:38 PM		
Client ID: MW 2		Run ID: VMS6_120921B				SeqNo: 2087563		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	65.76	1.0	20	62.96	14	80-120	70.05	6.32	30	S
Ethylbenzene	117.7	1.0	20	133.6	-79.3	75-125	134.7	13.4	30	SEO
m,p-Xylene	1351	2.0	40	1543	-479	75-130	1498	10.3	30	SEO
o-Xylene	119.8	1.0	20	116.3	17.2	80-120	136.3	12.9	30	SEO
Toluene	15.29	1.0	20	0	76.4	75-120	16.95	10.3	30	
Xylenes, Total	1471	3.0	60	1659	-314	75-130	1634	10.5	30	SEO
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.57</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.8</i>	<i>70-120</i>	<i>19.24</i>	<i>1.7</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>21.61</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>108</i>	<i>75-120</i>	<i>21.3</i>	<i>1.44</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>20.48</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>19.94</i>	<i>2.67</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>26.22</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>131</i>	<i>85-120</i>	<i>48.11</i>	<i>58.9</i>	<i>30</i>	<i>SR</i>

The following samples were analyzed in this batch:

1209480-01A	1209480-02A	1209480-03A
1209480-04A		

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R110176** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: VBLKW2-120924-R110176				Units: µg/L		Analysis Date: 9/25/2012 01:38 AM		
Client ID:		Run ID: VMS9_120924B				SeqNo: 2088726		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	21.27	0	20	0	106	70-120	0			
Surr: 4-Bromofluorobenzene	17.71	0	20	0	88.6	75-120	0			
Surr: Dibromofluoromethane	20.55	0	20	0	103	85-115	0			
Surr: Toluene-d8	19.52	0	20	0	97.6	85-120	0			

LCS		Sample ID: VLCSW2-120924-R110176				Units: µg/L		Analysis Date: 9/25/2012 12:47 PM		
Client ID:		Run ID: VMS9_120924B				SeqNo: 2088257		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	19.35	1.0	20	0	96.8	75-125	0			
m,p-Xylene	40.37	2.0	40	0	101	75-130	0			
o-Xylene	18.91	1.0	20	0	94.6	80-120	0			
Xylenes, Total	59.28	3.0	60	0	98.8	75-130	0			
Surr: 1,2-Dichloroethane-d4	21.28	0	20	0	106	70-120	0			
Surr: 4-Bromofluorobenzene	21.04	0	20	0	105	75-120	0			
Surr: Dibromofluoromethane	19.69	0	20	0	98.4	85-115	0			
Surr: Toluene-d8	19.95	0	20	0	99.8	85-120	0			

MS		Sample ID: 1209480-02A MS				Units: µg/L		Analysis Date: 9/25/2012 11:01 AM		
Client ID: MW 2		Run ID: VMS9_120924B				SeqNo: 2088743		Prep Date:		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	508.4	20	400	83.8	106	75-125	0			
m,p-Xylene	2948	40	800	1359	199	75-130	0			S
o-Xylene	491.4	20	400	78	103	80-120	0			
Xylenes, Total	3440	60	1200	1437	167	75-130	0			S
Surr: 1,2-Dichloroethane-d4	398	0	400	0	99.5	70-120	0			
Surr: 4-Bromofluorobenzene	423.6	0	400	0	106	75-120	0			
Surr: Dibromofluoromethane	392.2	0	400	0	98	85-115	0			
Surr: Toluene-d8	412.4	0	400	0	103	85-120	0			

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R110176** Instrument ID **VMS9** Method: **SW8260**

MSD		Sample ID: 1209480-02A MSD				Units: µg/L		Analysis Date: 9/25/2012 11:26 AM		
Client ID: MW 2		Run ID: VMS9_120924B				SeqNo: 2088744		Prep Date:		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	479.8	20	400	83.8	99	75-125	508.4	5.79	30	
m,p-Xylene	2813	40	800	1359	182	75-130	2948	4.69	30	S
o-Xylene	473.6	20	400	78	98.9	80-120	491.4	3.69	30	
Xylenes, Total	3287	60	1200	1437	154	75-130	3440	4.55	30	S
Surr: 1,2-Dichloroethane-d4	404.2	0	400	0	101	70-120	398	1.55	30	
Surr: 4-Bromofluorobenzene	420.2	0	400	0	105	75-120	423.6	0.806	30	
Surr: Dibromofluoromethane	363.4	0	400	0	90.8	85-115	392.2	7.62	30	
Surr: Toluene-d8	404.4	0	400	0	101	85-120	412.4	1.96	30	

The following samples were analyzed in this batch:

1209480-02A

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R109981** Instrument ID **WETCHEM** Method: **A4500-NO2 B**

MBLK	Sample ID: WBLKW1-120919-R109981					Units: mg/L		Analysis Date: 9/19/2012 02:30 PM		
Client ID:	Run ID: WETCHEM_120919P				SeqNo: 2083854		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite ND 0.020

LCS	Sample ID: WLCSW1-120919-R109981					Units: mg/L		Analysis Date: 9/19/2012 02:30 PM		
Client ID:	Run ID: WETCHEM_120919P				SeqNo: 2083855		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.2194 0.020 0.2 0 110 80-120 0

MS	Sample ID: 1209493-05B MS					Units: mg/L		Analysis Date: 9/19/2012 02:30 PM		
Client ID:	Run ID: WETCHEM_120919P				SeqNo: 2083865		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.2066 0.020 0.2 0.0034 102 75-125 0

MSD	Sample ID: 1209493-05B MSD					Units: mg/L		Analysis Date: 9/19/2012 02:30 PM		
Client ID:	Run ID: WETCHEM_120919P				SeqNo: 2083866		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.2097 0.020 0.2 0.0034 103 75-125 0.2066 1.49 20

The following samples were analyzed in this batch:

1209480-01C	1209480-02C	1209480-03C
1209480-04C		

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R110018** Instrument ID **LACHAT2** Method: **E353.2 R2.0**

MBLK	Sample ID: WBLKW1-120919-R110018					Units: mg/L		Analysis Date: 9/19/2012 12:28 PM		
Client ID:	Run ID: LACHAT2_120919B				SeqNo: 2084751		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate ND 0.020

LCS	Sample ID: WLCSW1-120919-R110018					Units: mg/L		Analysis Date: 9/19/2012 12:28 PM		
Client ID:	Run ID: LACHAT2_120919B				SeqNo: 2084752		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 5.223 0.020 5 0 104 80-120 0

MS	Sample ID: 1209424-02A MS					Units: mg/L		Analysis Date: 9/19/2012 12:28 PM		
Client ID:	Run ID: LACHAT2_120919B				SeqNo: 2084756		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 5.634 0.020 5 0.5154 102 75-125 0

MSD	Sample ID: 1209424-02A MSD					Units: mg/L		Analysis Date: 9/19/2012 12:28 PM		
Client ID:	Run ID: LACHAT2_120919B				SeqNo: 2084757		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 5.641 0.020 5 0.5154 103 75-125 5.634 0.124 20

The following samples were analyzed in this batch:

1209480-01D	1209480-02D	1209480-03D
1209480-04D		

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R110263** Instrument ID **IC4** Method: **SW9056**

MBLK		Sample ID: MBLK-R110263				Units: mg/L		Analysis Date: 9/25/2012 02:38 PM		
Client ID:		Run ID: IC4_120925C				SeqNo: 2090307		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	ND	0.10								
Chloride	ND	1.0								
Fluoride	ND	0.10								
Sulfate	ND	1.0								

LCS		Sample ID: LCS-R110263				Units: mg/L		Analysis Date: 9/25/2012 02:18 PM		
Client ID:		Run ID: IC4_120925C				SeqNo: 2090306		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.052	0.10	2	0	103	88-113	0			
Chloride	10.05	1.0	10	0	101	88-107	0			
Fluoride	1.851	0.10	2	0	92.5	86-111	0			
Sulfate	10.24	1.0	10	0	102	85-110	0			

MS		Sample ID: 1209480-04C MS				Units: mg/L		Analysis Date: 9/25/2012 04:23 PM		
Client ID: MW 4		Run ID: IC4_120925C				SeqNo: 2090312		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.529	0.10	2	0.4754	103	75-125	0			
Fluoride	2.037	0.10	2	0.164	93.6	75-125	0			

MS		Sample ID: 1209480-04C MS				Units: mg/L		Analysis Date: 9/25/2012 08:46 PM		
Client ID: MW 4		Run ID: IC4_120925C				SeqNo: 2090325		Prep Date:		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	71.94	5.0	10	61.5	104	75-125	0			O
Sulfate	59.2	5.0	10	49.42	97.8	75-125	0			O

MSD		Sample ID: 1209480-04C MSD				Units: mg/L		Analysis Date: 9/25/2012 04:43 PM		
Client ID: MW 4		Run ID: IC4_120925C				SeqNo: 2090313		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.531	0.10	2	0.4754	103	75-125	2.529	0.083	20	
Fluoride	2.059	0.10	2	0.164	94.8	75-125	2.037	1.07	20	

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

Client: HRL Compliance Solutions
Work Order: 1209480
Project: WPX TR 31-5 Monitor Well Pad 9/18/12

QC BATCH REPORT

Batch ID: **R110263** Instrument ID **IC4** Method: **SW9056**

MSD		Sample ID: 1209480-04C MSD				Units: mg/L		Analysis Date: 9/25/2012 09:06 PM			
Client ID: MW 4		Run ID: IC4_120925C				SeqNo: 2090326		Prep Date:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	73.31	5.0	10	61.5	118	75-125	71.94	1.89	20	O	
Sulfate	60.12	5.0	10	49.42	107	75-125	59.2	1.56	20	O	

The following samples were analyzed in this batch:

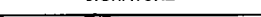



1209480-01C	1209480-02C	1209480-03C
1209480-04C		

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



1209480

Form 202r8

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dan Pinegar	9/18/2012	5:00PM
RECEIVED BY		NICK M	9/18/12	
RELINQUISHED BY		NICK M	9/18/12	1415
RECEIVED BY		KEITH W. ERENCA	9/19/12	1000

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 19-Sep-12 10:00

Work Order: 1209480

Received by: KRW

Checklist completed by Keith Wurenga 19-Sep-12
eSignature Date

Reviewed by: Ann Preston 20-Sep-12
eSignature Date

Matrices: Water

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"/>	
Temperature(s)/Thermometer(s):	<u>4.8 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>9/19/2012 12:24:44 PM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

From: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA



127 E First Street

PARACHUTE, CO 81635



J12201207160325

SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample Receiving
ALS Environmental - Holland
3352 128TH AVE

HOLLAND, MI 49424

Ship Date: 18SEP12
ActWgt: 56.0 LB
CAD: 103923490/INET3300

Delivery Address Bar Code



Ref # 1001-091812-2
Invoice #
PO #
Dept #

1 of 2

WED - 19 SEP A4
STANDARD OVERNIGHT

TRK# 7989 9632 4391

0201

MASTER

49424

MI-US

GRR

XX GRRA



515G10D3A/AA44

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Lab Hub LLC CUSTODY SEAL

Date: 09/18/12

Signature: Parachute, CO

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From: (970) 424-4749
 Lab Hub, LLC
 127 E First Street
 PARACHUTE, CO 81635

Origin ID: RILA



Ship Date: 18SEP12
 ActWgt: 33.0 LB
 CAD: 103923490/INET3300

Delivery Address Bar Code



SHIP TO: (616) 399-6070
Sample Receiving
ALS Environmental - Holland
3352 128TH AVE

BILL RECIPIENT

Ref # 1001-091812-2
 Invoice #
 PO #
 Dept #

HOLLAND, MI 49424

2 of 2

WED - 19 SEP A4
STANDARD OVERNIGHT

MPS# 7989 9632 4314

0263

Mstr# 7989 9632 4391

0201

49424

MI-US

GRR

XX GRRRA

515G1/0D3A/AA44

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Lab Hub LLC **CUSTODY SEAL**

Date: 9/18/2012

Signature: [Signature]

Lab Hub LLC
 Parachute, CO



14-Dec-2012

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

Re: **WPX TR 31-5 Monitor Well Pad 12/5/12**

Work Order: **1212249**

Dear Mark,

ALS Environmental received 4 samples on 07-Dec-2012 12:00 PM 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 30.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

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

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

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX TR 31-5 Monitor Well Pad 12/5/12
Work Order: 1212249

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>
1212249-01	MW-1	Water		12/5/2012 13:00	12/7/2012 12:00	<input type="checkbox"/>
1212249-02	MW-2	Water		12/5/2012 13:50	12/7/2012 12:00	<input type="checkbox"/>
1212249-03	MW-3	Water		12/5/2012 14:30	12/7/2012 12:00	<input type="checkbox"/>
1212249-04	MW-4	Water		12/5/2012 15:15	12/7/2012 12:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX TR 31-5 Monitor Well Pad 12/5/12
Work Order: 1212249

Case Narrative

Batch 45270A sample 1212249-02 DRO surrogate recovery was above the upper control limits. The sample results may be biased high for DRO due to matrix interference.

Batch 45271 sample MW-1 MS recovery for Phenanthrene was above control limits. Both the MS recovery and RPD met quality control criteria. No data requires qualification.

Batch 45271 sample 1212249-02 PAH reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch R113659 sample MW-2 MS/MSD recoveries for Ethylbenzene, m,p-Xylene, o-Xylene and Total Xylenes were below control limits. The corresponding results for Ethylbenzene and o-Xylene in the parent sample may be biased low. The results for m,p-Xylene and Total Xylenes in the parent sample were greater than 4x the spiked amount. These two compounds do not need to be qualified.

Sample 1212249-03 had a high surrogate recovery for Tolunen-d8. Toluene was ND in this sample. No data requires qualification.

Batch R113707A sample MW-2 MS/MSD recoveries for m,p-Xylene and Total Xylenes were below control limits. The corresponding result for Total Xylenes in the parent sample may be biased low. The result for m,p-Xylene was greater than 4x the spiked amount. This compound does not need to be qualified.

Batch R113780 sample MW-3 MS/MSD recoveries for GRO were below the control limit. The corresponding result in the parent sample may be biased low for GRO.

Client: HRL Compliance Solutions
Project: WPX TR 31-5 Monitor Well Pad 12/5/12
WorkOrder: 1212249

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 14-Dec-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 12/5/12

Sample ID: MW-1

Collection Date: 12/5/2012 01:00 PM

Work Order: 1212249

Lab ID: 1212249-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 12/10/2012	Analyst: CW
DRO (C10-C28)	ND		0.10	mg/L	1	12/12/2012 11:28 AM
Surr: 4-Terphenyl-d14	38.2		21-90	%REC	1	12/12/2012 11:28 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	ND		0.20	mg/L	1	12/11/2012 03:35 PM
Surr: Toluene-d8	107		70-130	%REC	1	12/11/2012 03:35 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	68		0.50	mg/L	1	12/13/2012 12:27 PM
Iron	0.12		0.080	mg/L	1	12/13/2012 12:27 PM
Magnesium	33		0.20	mg/L	1	12/13/2012 12:27 PM
Manganese	0.023		0.0050	mg/L	1	12/13/2012 12:27 PM
Potassium	0.74		0.20	mg/L	1	12/13/2012 12:27 PM
Sodium	51		0.20	mg/L	1	12/13/2012 12:27 PM
POLYNUCLEAR AROMATIC HYDROCARBONS			SW8270		Prep Date: 12/10/2012	Analyst: RM
1-Methylnaphthalene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
2-Chloronaphthalene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
2-Methylnaphthalene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Acenaphthene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Acenaphthylene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Anthracene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Chrysene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Fluoranthene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Fluorene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Naphthalene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Phenanthrene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Pyrene	ND		5.0	µg/L	1	12/11/2012 01:04 PM
Surr: 2-Fluorobiphenyl	85.9		20-122	%REC	1	12/11/2012 01:04 PM
Surr: 4-Terphenyl-d14	136		22-172	%REC	1	12/11/2012 01:04 PM
Surr: Nitrobenzene-d5	42.5		8-115	%REC	1	12/11/2012 01:04 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	12/8/2012 11:43 AM

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

ALS Group USA, Corp

Date: 14-Dec-12

Client: HRL Compliance Solutions**Project:** WPX TR 31-5 Monitor Well Pad 12/5/12**Work Order:** 1212249**Sample ID:** MW-1**Lab ID:** 1212249-01**Collection Date:** 12/5/2012 01:00 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	ND		1.0	µg/L	1	12/8/2012 11:43 AM
m,p-Xylene	ND		2.0	µg/L	1	12/8/2012 11:43 AM
o-Xylene	ND		1.0	µg/L	1	12/8/2012 11:43 AM
Toluene	ND		1.0	µg/L	1	12/8/2012 11:43 AM
Xylenes, Total	ND		3.0	µg/L	1	12/8/2012 11:43 AM
Surr: 1,2-Dichloroethane-d4	85.0		70-120	%REC	1	12/8/2012 11:43 AM
Surr: 4-Bromofluorobenzene	108		75-120	%REC	1	12/8/2012 11:43 AM
Surr: Dibromofluoromethane	95.0		85-115	%REC	1	12/8/2012 11:43 AM
Surr: Toluene-d8	94.9		85-120	%REC	1	12/8/2012 11:43 AM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.26		0.10	mg/L	1	12/12/2012 03:42 PM
Chloride	41		10	mg/L	10	12/12/2012 06:24 PM
Fluoride	0.16		0.10	mg/L	1	12/12/2012 03:42 PM
Sulfate	120		10	mg/L	10	12/12/2012 06:24 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JB
Nitrogen, Nitrite	ND		0.020	mg/L	1	12/7/2012 11:00 AM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	0.64		0.020	mg/L	1	12/13/2012 01:58 PM

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

ALS Group USA, Corp

Date: 14-Dec-12

Client: HRL Compliance Solutions
Project: WPX TR 31-5 Monitor Well Pad 12/5/12
Sample ID: MW-2
Collection Date: 12/5/2012 01:50 PM

Work Order: 1212249
Lab ID: 1212249-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 12/10/2012	Analyst: CW
DRO (C10-C28)	120		1.0	mg/L	10	12/13/2012 10:47 AM
Surr: 4-Terphenyl-d14	137	S	21-90	%REC	10	12/13/2012 10:47 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: CW
GRO (C6-C10)	28		0.20	mg/L	1	12/11/2012 04:50 PM
Surr: Toluene-d8	114		70-130	%REC	1	12/11/2012 04:50 PM
METALS BY ICP-MS (DISSOLVED)						
			SW6020A			Analyst: RH
Calcium	59		0.50	mg/L	1	12/13/2012 12:42 PM
Iron	0.20		0.080	mg/L	1	12/13/2012 12:42 PM
Magnesium	30		0.20	mg/L	1	12/13/2012 12:42 PM
Manganese	0.45		0.0050	mg/L	1	12/13/2012 12:42 PM
Potassium	0.98		0.20	mg/L	1	12/13/2012 12:42 PM
Sodium	73		0.20	mg/L	1	12/13/2012 12:42 PM
POLYNUCLEAR AROMATIC HYDROCARBONS						
			SW8270		Prep Date: 12/10/2012	Analyst: RM
1-Methylnaphthalene	230		50	µg/L	10	12/11/2012 03:49 PM
2-Chloronaphthalene	ND		50	µg/L	10	12/11/2012 03:49 PM
2-Methylnaphthalene	600		50	µg/L	10	12/11/2012 03:49 PM
Acenaphthene	ND		50	µg/L	10	12/11/2012 03:49 PM
Acenaphthylene	ND		50	µg/L	10	12/11/2012 03:49 PM
Anthracene	ND		50	µg/L	10	12/11/2012 03:49 PM
Benzo(a)anthracene	ND		50	µg/L	10	12/11/2012 03:49 PM
Benzo(a)pyrene	ND		50	µg/L	10	12/11/2012 03:49 PM
Benzo(b)fluoranthene	ND		50	µg/L	10	12/11/2012 03:49 PM
Benzo(g,h,i)perylene	ND		50	µg/L	10	12/11/2012 03:49 PM
Benzo(k)fluoranthene	ND		50	µg/L	10	12/11/2012 03:49 PM
Chrysene	ND		50	µg/L	10	12/11/2012 03:49 PM
Dibenzo(a,h)anthracene	ND		50	µg/L	10	12/11/2012 03:49 PM
Fluoranthene	ND		50	µg/L	10	12/11/2012 03:49 PM
Fluorene	ND		50	µg/L	10	12/11/2012 03:49 PM
Indeno(1,2,3-cd)pyrene	ND		50	µg/L	10	12/11/2012 03:49 PM
Naphthalene	230		50	µg/L	10	12/11/2012 03:49 PM
Phenanthrene	ND		50	µg/L	10	12/11/2012 03:49 PM
Pyrene	ND		50	µg/L	10	12/11/2012 03:49 PM
Surr: 2-Fluorobiphenyl	97.2		20-122	%REC	10	12/11/2012 03:49 PM
Surr: 4-Terphenyl-d14	120		22-172	%REC	10	12/11/2012 03:49 PM
Surr: Nitrobenzene-d5	49.7		8-115	%REC	10	12/11/2012 03:49 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260			Analyst: BG
Benzene	110		20	µg/L	20	12/8/2012 12:56 PM

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

ALS Group USA, Corp

Date: 14-Dec-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 12/5/12

Sample ID: MW-2

Collection Date: 12/5/2012 01:50 PM

Work Order: 1212249

Lab ID: 1212249-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	590		20	µg/L	20	12/8/2012 12:56 PM
m,p-Xylene	16,000		200	µg/L	100	12/11/2012 07:59 AM
o-Xylene	760		20	µg/L	20	12/8/2012 12:56 PM
Toluene	36		20	µg/L	20	12/8/2012 12:56 PM
Xylenes, Total	17,000		300	µg/L	100	12/11/2012 07:59 AM
Surr: 1,2-Dichloroethane-d4	104		70-120	%REC	20	12/8/2012 12:56 PM
Surr: 1,2-Dichloroethane-d4	92.6		70-120	%REC	100	12/11/2012 07:59 AM
Surr: 4-Bromofluorobenzene	95.6		75-120	%REC	20	12/8/2012 12:56 PM
Surr: 4-Bromofluorobenzene	96.2		75-120	%REC	100	12/11/2012 07:59 AM
Surr: Dibromofluoromethane	96.6		85-115	%REC	100	12/11/2012 07:59 AM
Surr: Dibromofluoromethane	104		85-115	%REC	20	12/8/2012 12:56 PM
Surr: Toluene-d8	95.0		85-120	%REC	100	12/11/2012 07:59 AM
Surr: Toluene-d8	116		85-120	%REC	20	12/8/2012 12:56 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.47		0.10	mg/L	1	12/12/2012 02:42 PM
Chloride	54		5.0	mg/L	5	12/12/2012 04:43 PM
Fluoride	0.20		0.10	mg/L	1	12/12/2012 02:42 PM
Sulfate	28		5.0	mg/L	5	12/12/2012 04:43 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JB
Nitrogen, Nitrite	ND		0.020	mg/L	1	12/7/2012 11:00 AM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	12/13/2012 01:58 PM

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

ALS Group USA, Corp

Date: 14-Dec-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 12/5/12

Sample ID: MW-3

Collection Date: 12/5/2012 02:30 PM

Work Order: 1212249

Lab ID: 1212249-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 12/10/2012	Analyst: CW
DRO (C10-C28)	2.0		0.10	mg/L	1	12/12/2012 12:39 PM
Surr: 4-Terphenyl-d14	41.9		21-90	%REC	1	12/12/2012 12:39 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: CW
GRO (C6-C10)	1.7		0.20	mg/L	1	12/11/2012 04:00 PM
Surr: Toluene-d8	109		70-130	%REC	1	12/11/2012 04:00 PM
METALS BY ICP-MS (DISSOLVED)			SW6020A			Analyst: RH
Calcium	69		0.50	mg/L	1	12/13/2012 12:47 PM
Iron	0.18		0.080	mg/L	1	12/13/2012 12:47 PM
Magnesium	33		0.20	mg/L	1	12/13/2012 12:47 PM
Manganese	2.5		0.050	mg/L	10	12/12/2012 06:41 PM
Potassium	0.74		0.20	mg/L	1	12/13/2012 12:47 PM
Sodium	52		0.20	mg/L	1	12/13/2012 12:47 PM
POLYNUCLEAR AROMATIC HYDROCARBONS			SW8270		Prep Date: 12/10/2012	Analyst: RM
1-Methylnaphthalene	5.7		5.0	µg/L	1	12/11/2012 02:43 PM
2-Chloronaphthalene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
2-Methylnaphthalene	11		5.0	µg/L	1	12/11/2012 02:43 PM
Acenaphthene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Acenaphthylene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Anthracene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Chrysene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Fluoranthene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Fluorene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Naphthalene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Phenanthrene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Pyrene	ND		5.0	µg/L	1	12/11/2012 02:43 PM
Surr: 2-Fluorobiphenyl	76.5		20-122	%REC	1	12/11/2012 02:43 PM
Surr: 4-Terphenyl-d14	129		22-172	%REC	1	12/11/2012 02:43 PM
Surr: Nitrobenzene-d5	38.2		8-115	%REC	1	12/11/2012 02:43 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	12/8/2012 12:07 PM

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

ALS Group USA, Corp

Date: 14-Dec-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 12/5/12

Sample ID: MW-3

Collection Date: 12/5/2012 02:30 PM

Work Order: 1212249

Lab ID: 1212249-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	7.1		1.0	µg/L	1	12/8/2012 12:07 PM
m,p-Xylene	81		2.0	µg/L	1	12/8/2012 12:07 PM
o-Xylene	3.0		1.0	µg/L	1	12/8/2012 12:07 PM
Toluene	ND		1.0	µg/L	1	12/8/2012 12:07 PM
Xylenes, Total	84		3.0	µg/L	1	12/8/2012 12:07 PM
Surr: 1,2-Dichloroethane-d4	97.4		70-120	%REC	1	12/8/2012 12:07 PM
Surr: 4-Bromofluorobenzene	104		75-120	%REC	1	12/8/2012 12:07 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	12/8/2012 12:07 PM
Surr: Toluene-d8	124	S	85-120	%REC	1	12/8/2012 12:07 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.31		0.10	mg/L	1	12/12/2012 03:02 PM
Chloride	38		10	mg/L	10	12/12/2012 05:03 PM
Fluoride	0.16		0.10	mg/L	1	12/12/2012 03:02 PM
Sulfate	110		10	mg/L	10	12/12/2012 05:03 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JB
Nitrogen, Nitrite	ND		0.020	mg/L	1	12/7/2012 11:00 AM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	12/13/2012 01:58 PM

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

ALS Group USA, Corp

Date: 14-Dec-12

Client: HRL Compliance Solutions
Project: WPX TR 31-5 Monitor Well Pad 12/5/12
Sample ID: MW-4
Collection Date: 12/5/2012 03:15 PM

Work Order: 1212249
Lab ID: 1212249-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 12/10/2012	Analyst: CW
DRO (C10-C28)	1.3		0.10	mg/L	1	12/12/2012 01:15 PM
Surr: 4-Terphenyl-d14	40.7		21-90	%REC	1	12/12/2012 01:15 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: CW
GRO (C6-C10)	0.34		0.20	mg/L	1	12/11/2012 04:25 PM
Surr: Toluene-d8	103		70-130	%REC	1	12/11/2012 04:25 PM
METALS BY ICP-MS (DISSOLVED)						
			SW6020A			Analyst: RH
Calcium	68		0.50	mg/L	1	12/13/2012 12:52 PM
Iron	0.091		0.080	mg/L	1	12/13/2012 12:52 PM
Magnesium	31		0.20	mg/L	1	12/13/2012 12:52 PM
Manganese	1.3		0.0050	mg/L	1	12/13/2012 12:52 PM
Potassium	0.77		0.20	mg/L	1	12/13/2012 12:52 PM
Sodium	71		0.20	mg/L	1	12/13/2012 12:52 PM
POLYNUCLEAR AROMATIC HYDROCARBONS						
			SW8270		Prep Date: 12/10/2012	Analyst: RM
1-Methylnaphthalene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
2-Chloronaphthalene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
2-Methylnaphthalene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Acenaphthene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Acenaphthylene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Anthracene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Benzo(a)anthracene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Benzo(a)pyrene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Benzo(b)fluoranthene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Benzo(g,h,i)perylene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Benzo(k)fluoranthene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Chrysene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Dibenzo(a,h)anthracene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Fluoranthene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Fluorene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Indeno(1,2,3-cd)pyrene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Naphthalene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Phenanthrene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Pyrene	ND		5.0	µg/L	1	12/11/2012 03:16 PM
Surr: 2-Fluorobiphenyl	82.5		20-122	%REC	1	12/11/2012 03:16 PM
Surr: 4-Terphenyl-d14	137		22-172	%REC	1	12/11/2012 03:16 PM
Surr: Nitrobenzene-d5	42.6		8-115	%REC	1	12/11/2012 03:16 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260			Analyst: BG
Benzene	9.0		1.0	µg/L	1	12/8/2012 12:32 PM

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

ALS Group USA, Corp

Date: 14-Dec-12

Client: HRL Compliance Solutions

Project: WPX TR 31-5 Monitor Well Pad 12/5/12

Sample ID: MW-4

Collection Date: 12/5/2012 03:15 PM

Work Order: 1212249

Lab ID: 1212249-04

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	2.4		1.0	µg/L	1	12/8/2012 12:32 PM
m,p-Xylene	7.8		2.0	µg/L	1	12/8/2012 12:32 PM
o-Xylene	ND		1.0	µg/L	1	12/8/2012 12:32 PM
Toluene	ND		1.0	µg/L	1	12/8/2012 12:32 PM
Xylenes, Total	7.8		3.0	µg/L	1	12/8/2012 12:32 PM
Surr: 1,2-Dichloroethane-d4	97.2		70-120	%REC	1	12/8/2012 12:32 PM
Surr: 4-Bromofluorobenzene	95.4		75-120	%REC	1	12/8/2012 12:32 PM
Surr: Dibromofluoromethane	98.2		85-115	%REC	1	12/8/2012 12:32 PM
Surr: Toluene-d8	102		85-120	%REC	1	12/8/2012 12:32 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Bromide	0.45		0.10	mg/L	1	12/12/2012 03:22 PM
Chloride	52		5.0	mg/L	5	12/12/2012 06:04 PM
Fluoride	0.16		0.10	mg/L	1	12/12/2012 03:22 PM
Sulfate	49		5.0	mg/L	5	12/12/2012 06:04 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JB
Nitrogen, Nitrite	ND		0.020	mg/L	1	12/7/2012 11:00 AM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	12/13/2012 01:58 PM

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

ALS Group USA, Corp

Date: 14-Dec-12

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1212249

Project: WPX TR 31-5 Monitor Well Pad 12/5/12

Batch ID: **45270A**

Instrument ID **GC11**

Method: **SW8015M**

MBLK		Sample ID: DBLKW1-45270-45270A				Units: mg/L		Analysis Date: 12/12/2012 09:07 AM		
Client ID:		Run ID: GC11_121212A				SeqNo: 2167957		Prep Date: 12/10/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	0.10								
Surr: 4-Terphenyl-d14	0.04546	0	0.1143	0	39.8	21-90	0			

LCS		Sample ID: DLCSW1-45270-45270A				Units: mg/L		Analysis Date: 12/12/2012 09:43 AM		
Client ID:		Run ID: GC11_121212A				SeqNo: 2167959		Prep Date: 12/10/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	5.622	0.10	11.43	0	49.2	44-116	0			
Surr: 4-Terphenyl-d14	0.05049	0	0.1143	0	44.2	21-90	0			

MS		Sample ID: 1212249-01B MS				Units: mg/L		Analysis Date: 12/12/2012 10:18 AM		
Client ID: MW-1		Run ID: GC11_121212A				SeqNo: 2167962		Prep Date: 12/10/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	18.05	0.35	40	0	45.1	44-116	0			
Surr: 4-Terphenyl-d14	0.1714	0	0.4	0	42.8	21-90	0			

MSD		Sample ID: 1212249-01B MSD				Units: mg/L		Analysis Date: 12/12/2012 10:53 AM		
Client ID: MW-1		Run ID: GC11_121212A				SeqNo: 2167964		Prep Date: 12/10/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	18.96	0.35	40	0	47.4	44-116	18.05	4.87	30	
Surr: 4-Terphenyl-d14	0.1756	0	0.4	0	43.9	21-90	0.1714	2.44	30	

The following samples were analyzed in this batch:

1212249-01B
1212249-04B

1212249-02B

1212249-03B

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **R113780** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: GBLK1-121211-R113780				Units: µg/L		Analysis Date: 12/11/2012 01:07 PM		
Client ID:		Run ID: GC10_121211A				SeqNo: 2165952		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								
<i>Surr: Toluene-d8</i>	<i>105.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: GLCS1-121211-R113780				Units: µg/L		Analysis Date: 12/11/2012 12:18 PM		
Client ID:		Run ID: GC10_121211A				SeqNo: 2165951		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)	7931	200	10000	0	79.3	70-130	0			
<i>Surr: Toluene-d8</i>	<i>113.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>113</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1212249-03A MS				Units: µg/L		Analysis Date: 12/11/2012 09:47 PM		
Client ID: MW-3		Run ID: GC10_121211A				SeqNo: 2165957		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)	8064	200	10000	1749	63.2	70-130	0			S
<i>Surr: Toluene-d8</i>	<i>111.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>111</i>	<i>70-130</i>	<i>0</i>			

MSD		Sample ID: 1212249-03A MSD				Units: µg/L		Analysis Date: 12/11/2012 10:12 PM		
Client ID: MW-3		Run ID: GC10_121211A				SeqNo: 2165958		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)	7776	200	10000	1749	60.3	70-130	8064	3.64	30	S
<i>Surr: Toluene-d8</i>	<i>112</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>112</i>	<i>70-130</i>	<i>111.4</i>	<i>0.6</i>	<i>30</i>	

The following samples were analyzed in this batch:

1212249-01A	1212249-02A	1212249-03A
1212249-04A		

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

Client: HRL Compliance Solutions
 Work Order: 1212249
 Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: R113825A Instrument ID ICPMS2 Method: SW6020A (Dissolve)

MS Sample ID: 1212249-01CMS				Units: mg/L			Analysis Date: 12/12/2012 06:26 PM			
Client ID: MW-1		Run ID: ICPMS2_121212A		SeqNo: 2167688		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	134.8	5.0	100	69.62	65.2	75-125	0			S
Iron	79.83	0.80	100	0.1898	79.6	75-125	0			
Magnesium	107.4	2.0	100	34.54	72.9	75-125	0			S
Manganese	0.8246	0.050	1	0.02325	80.1	75-125	0			
Potassium	81.72	2.0	100	0.7106	81	75-125	0			
Sodium	123	2.0	100	52.46	70.5	75-125	0			S

MS Sample ID: 1212249-01CMS				Units: mg/L			Analysis Date: 12/13/2012 12:32 PM			
Client ID: MW-1		Run ID: ICPMS2_121213A		SeqNo: 2168327		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	76.33	0.50	10	67.87	84.6	75-125	0			O
Iron	9.683	0.080	10	0.122	95.6	75-125	0			
Magnesium	42.26	0.20	10	33.34	89.2	75-125	0			
Manganese	0.1195	0.0050	0.1	0.02313	96.4	75-125	0			
Potassium	10.47	0.20	10	0.7408	97.3	75-125	0			
Sodium	60.04	0.20	10	51.37	86.7	75-125	0			O

MSD Sample ID: 1212249-01CMSD				Units: mg/L			Analysis Date: 12/12/2012 06:31 PM			
Client ID: MW-1		Run ID: ICPMS2_121212A		SeqNo: 2167689		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	130.6	5.0	100	69.62	61	75-125	134.8	3.17	20	S
Iron	81.22	0.80	100	0.1898	81	75-125	79.83	1.73	20	
Magnesium	104.9	2.0	100	34.54	70.4	75-125	107.4	2.36	20	S
Manganese	0.8356	0.050	1	0.02325	81.2	75-125	0.8246	1.33	20	
Potassium	81.23	2.0	100	0.7106	80.5	75-125	81.72	0.601	20	
Sodium	118.2	2.0	100	52.46	65.7	75-125	123	3.98	20	S

MSD Sample ID: 1212249-01CMSD				Units: mg/L			Analysis Date: 12/13/2012 12:37 PM			
Client ID: MW-1		Run ID: ICPMS2_121213A		SeqNo: 2168328		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	76.93	0.50	10	67.87	90.6	75-125	76.33	0.783	20	O
Iron	9.47	0.080	10	0.122	93.5	75-125	9.683	2.22	20	
Magnesium	42.34	0.20	10	33.34	90	75-125	42.26	0.189	20	
Manganese	0.1177	0.0050	0.1	0.02313	94.6	75-125	0.1195	1.52	20	
Potassium	10.25	0.20	10	0.7408	95.1	75-125	10.47	2.12	20	
Sodium	60.13	0.20	10	51.37	87.6	75-125	60.04	0.15	20	O

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **R113825A** Instrument ID **ICPMS2** Method: **SW6020A** **(Dissolve)**

The following samples were analyzed in this batch:

1212249-01C	1212249-02C	1212249-03C
1212249-04C		

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **45271** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKW1-45271-45271				Units: µg/L		Analysis Date: 12/11/2012 10:52 AM		
Client ID:		Run ID: SVMS6_121211A				SeqNo: 2165699		Prep Date: 12/10/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	5.0								
2-Chloronaphthalene	ND	5.0								
2-Methylnaphthalene	ND	5.0								
Acenaphthene	ND	5.0								
Acenaphthylene	ND	5.0								
Anthracene	ND	5.0								
Benzo(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	5.0								
Benzo(b)fluoranthene	ND	5.0								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	5.0								
Chrysene	ND	5.0								
Dibenzo(a,h)anthracene	ND	5.0								
Fluoranthene	ND	5.0								
Fluorene	ND	5.0								
Indeno(1,2,3-cd)pyrene	ND	5.0								
Naphthalene	ND	5.0								
Phenanthrene	ND	5.0								
Pyrene	ND	5.0								
<i>Surr: 2-Fluorobiphenyl</i>	<i>102.7</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>90.1</i>	<i>20-122</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>154.5</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>136</i>	<i>22-172</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>53.49</i>	<i>0</i>	<i>114</i>	<i>0</i>	<i>46.9</i>	<i>8-115</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **45271** Instrument ID **SVMS6** Method: **SW8270**

LCS		Sample ID: SLCSW1-45271-45271				Units: µg/L		Analysis Date: 12/11/2012 11:25 AM		
Client ID:		Run ID: SVMS6_121211A				SeqNo: 2165700		Prep Date: 12/10/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	24.48	5.0	45.7	0	53.6	30-100	0			
2-Chloronaphthalene	24.98	5.0	45.7	0	54.7	50-105	0			
2-Methylnaphthalene	24.23	5.0	45.7	0	53	45-105	0			
Acenaphthene	30.93	5.0	45.7	0	67.7	45-110	0			
Acenaphthylene	33.74	5.0	45.7	0	73.8	50-105	0			
Anthracene	39.79	5.0	45.7	0	87.1	55-110	0			
Benzo(a)anthracene	44.69	5.0	45.7	0	97.8	55-110	0			
Benzo(a)pyrene	41.76	5.0	45.7	0	91.4	55-110	0			
Benzo(b)fluoranthene	43.27	5.0	45.7	0	94.7	45-120	0			
Benzo(g,h,i)perylene	50.95	5.0	45.7	0	111	40-125	0			
Benzo(k)fluoranthene	46.7	5.0	45.7	0	102	45-125	0			
Chrysene	40.85	5.0	45.7	0	89.4	55-110	0			
Dibenzo(a,h)anthracene	49.97	5.0	45.7	0	109	40-125	0			
Fluoranthene	46.65	5.0	45.7	0	102	55-115	0			
Fluorene	37.94	5.0	45.7	0	83	50-110	0			
Indeno(1,2,3-cd)pyrene	48.3	5.0	45.7	0	106	45-125	0			
Naphthalene	20.25	5.0	45.7	0	44.3	40-100	0			
Phenanthrene	47.22	5.0	45.7	0	103	50-115	0			
Pyrene	44.21	5.0	45.7	0	96.7	50-130	0			
Surr: 2-Fluorobiphenyl	90.95	0	114	0	79.8	20-122	0			
Surr: 4-Terphenyl-d14	138.1	0	114	0	121	22-172	0			
Surr: Nitrobenzene-d5	47.36	0	114	0	41.5	8-115	0			

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **45271** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1212249-01B MS			Units: µg/L		Analysis Date: 12/11/2012 11:58 AM	
Client ID: MW-1				Run ID: SVMS6_121211A			SeqNo: 2165701		Prep Date: 12/10/2012	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	107.4	18	160	0	67.1	30-100	0			
2-Chloronaphthalene	109	18	160	0	68.1	50-105	0			
2-Methylnaphthalene	105	18	160	0	65.7	45-105	0			
Acenaphthene	125	18	160	0	78.2	45-110	0			
Acenaphthylene	138.6	18	160	0	86.6	50-105	0			
Anthracene	156.2	18	160	0	97.6	55-110	0			
Benzo(a)anthracene	175.1	18	160	0	109	55-110	0			
Benzo(a)pyrene	163.2	18	160	0	102	55-110	0			
Benzo(b)fluoranthene	173.6	18	160	0	109	45-120	0			
Benzo(g,h,i)perylene	199.8	18	160	0	125	40-125	0			
Benzo(k)fluoranthene	177.4	18	160	0	111	45-125	0			
Chrysene	157.7	18	160	0	98.6	55-110	0			
Dibenzo(a,h)anthracene	196.4	18	160	0	123	40-125	0			
Fluoranthene	182.4	18	160	0	114	55-115	0			
Fluorene	158.2	18	160	0	98.9	50-110	0			
Indeno(1,2,3-cd)pyrene	189.7	18	160	0	119	45-125	0			
Naphthalene	77.6	18	160	0	48.5	40-100	0			
Phenanthrene	184.2	18	160	0	115	50-115	0			S
Pyrene	172.1	18	160	0	108	50-130	0			
Surr: 2-Fluorobiphenyl	336.4	0	399	0	84.3	20-122	0			
Surr: 4-Terphenyl-d14	497.2	0	399	0	125	22-172	0			
Surr: Nitrobenzene-d5	164.7	0	399	0	41.3	8-115	0			

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **45271** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 1212249-01B MSD			Units: µg/L		Analysis Date: 12/11/2012 12:31 PM		
Client ID: MW-1			Run ID: SVMS6_121211A			SeqNo: 2165702		Prep Date: 12/10/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	100.8	18	160	0	63	30-100	107.4	6.3	30		
2-Chloronaphthalene	107.8	18	160	0	67.4	50-105	109	1.11	30		
2-Methylnaphthalene	99.76	18	160	0	62.4	45-105	105	5.16	30		
Acenaphthene	119.7	18	160	0	74.8	45-110	125	4.38	30		
Acenaphthylene	129.6	18	160	0	81	50-105	138.6	6.68	30		
Anthracene	142	18	160	0	88.8	55-110	156.2	9.5	30		
Benzo(a)anthracene	159.8	18	160	0	99.9	55-110	175.1	9.12	30		
Benzo(a)pyrene	148.8	18	160	0	93	55-110	163.2	9.23	30		
Benzo(b)fluoranthene	156.6	18	160	0	97.9	45-120	173.6	10.3	30		
Benzo(g,h,i)perylene	183.1	18	160	0	114	40-125	199.8	8.73	30		
Benzo(k)fluoranthene	164.2	18	160	0	103	45-125	177.4	7.73	30		
Chrysene	143.8	18	160	0	89.9	55-110	157.7	9.18	30		
Dibenzo(a,h)anthracene	178.7	18	160	0	112	40-125	196.4	9.43	30		
Fluoranthene	169	18	160	0	106	55-115	182.4	7.65	30		
Fluorene	131.4	18	160	0	82.2	50-110	158.2	18.5	30		
Indeno(1,2,3-cd)pyrene	173.3	18	160	0	108	45-125	189.7	9.04	30		
Naphthalene	76.4	18	160	0	47.8	40-100	77.6	1.56	30		
Phenanthrene	169.4	18	160	0	106	50-115	184.2	8.37	30		
Pyrene	158.5	18	160	0	99.1	50-130	172.1	8.23	30		
Surr: 2-Fluorobiphenyl	317.1	0	399	0	79.5	20-122	336.4	5.9	30		
Surr: 4-Terphenyl-d14	470.8	0	399	0	118	22-172	497.2	5.45	30		
Surr: Nitrobenzene-d5	144.7	0	399	0	36.3	8-115	164.7	12.9	30		

The following samples were analyzed in this batch:

1212249-01B	1212249-02B	1212249-03B
1212249-04B		

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **R113659** Instrument ID **VMS5** Method: **SW8260**

MBLK		Sample ID: VBLKW2-121207-R113659				Units: µg/L		Analysis Date: 12/8/2012 04:50 AM		
Client ID:		Run ID: VMS5_121207B				SeqNo: 2163394		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	20.13	0	20	0	101	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	20.23	0	20	0	101	75-120	0			
<i>Surr: Dibromofluoromethane</i>	19.87	0	20	0	99.4	85-115	0			
<i>Surr: Toluene-d8</i>	19.82	0	20	0	99.1	85-120	0			

LCS		Sample ID: VLCSW2-121207-R113659				Units: µg/L		Analysis Date: 12/8/2012 04:02 AM		
Client ID:		Run ID: VMS5_121207B				SeqNo: 2163393		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.8	1.0	20	0	94	80-120	0			
Ethylbenzene	18.41	1.0	20	0	92	75-125	0			
m,p-Xylene	37.52	2.0	40	0	93.8	75-130	0			
o-Xylene	18.65	1.0	20	0	93.2	80-120	0			
Toluene	19.74	1.0	20	0	98.7	75-120	0			
Xylenes, Total	56.17	3.0	60	0	93.6	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	19.86	0	20	0	99.3	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	19.64	0	20	0	98.2	75-120	0			
<i>Surr: Dibromofluoromethane</i>	20.79	0	20	0	104	85-115	0			
<i>Surr: Toluene-d8</i>	19.8	0	20	0	99	85-120	0			

MS		Sample ID: 1212249-02A MS				Units: µg/L		Analysis Date: 12/8/2012 02:09 PM		
Client ID: MW-2		Run ID: VMS5_121207B				SeqNo: 2163399		Prep Date:		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	445.8	20	400	109	84.2	80-120	0			
Ethylbenzene	672.4	20	400	588.6	21	75-125	0			S
m,p-Xylene	5996	40	800	9629	-454	75-130	0			SEO
o-Xylene	786.6	20	400	756.2	7.6	80-120	0			S
Toluene	383.6	20	400	36	86.9	75-120	0			
Xylenes, Total	6782	60	1200	10390	-300	75-130	0			SEO
<i>Surr: 1,2-Dichloroethane-d4</i>	379.6	0	400	0	94.9	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	397	0	400	0	99.2	75-120	0			
<i>Surr: Dibromofluoromethane</i>	400.4	0	400	0	100	85-115	0			
<i>Surr: Toluene-d8</i>	425.4	0	400	0	106	85-120	0			

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **R113659** Instrument ID **VMS5** Method: **SW8260**

MSD		Sample ID: 1212249-02A MSD				Units: µg/L		Analysis Date: 12/8/2012 02:34 PM		
Client ID: MW-2		Run ID: VMS5_121207B				SeqNo: 2163400		Prep Date:		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	441	20	400	109	83	80-120	445.8	1.08	30	
Ethylbenzene	679	20	400	588.6	22.6	75-125	672.4	0.977	30	S
m,p-Xylene	6140	40	800	9629	-436	75-130	5996	2.38	30	SEO
o-Xylene	816.2	20	400	756.2	15	80-120	786.6	3.69	30	S
Toluene	396.8	20	400	36	90.2	75-120	383.6	3.38	30	
Xylenes, Total	6956	60	1200	10390	-286	75-130	6782	2.53	30	SEO
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>380.4</i>	<i>0</i>	<i>400</i>	<i>0</i>	<i>95.1</i>	<i>70-120</i>	<i>379.6</i>	<i>0.211</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>399</i>	<i>0</i>	<i>400</i>	<i>0</i>	<i>99.8</i>	<i>75-120</i>	<i>397</i>	<i>0.503</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>404</i>	<i>0</i>	<i>400</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>400.4</i>	<i>0.895</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>424</i>	<i>0</i>	<i>400</i>	<i>0</i>	<i>106</i>	<i>85-120</i>	<i>425.4</i>	<i>0.33</i>	<i>30</i>	

The following samples were analyzed in this batch:

1212249-01A	1212249-02A	1212249-03A
1212249-04A		

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

Client: HRL Compliance Solutions
 Work Order: 1212249
 Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **R113707A** Instrument ID **VMS8** Method: **SW8260**

MBLK		Sample ID: VBLKW2-121210-R113707A				Units: µg/L		Analysis Date: 12/10/2012 11:38 PM		
Client ID:		Run ID: VMS8_121210B				SeqNo: 2164451		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	ND	2.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	17.93	0	20	0	89.6	70-120	0			
Surr: 4-Bromofluorobenzene	18.56	0	20	0	92.8	75-120	0			
Surr: Dibromofluoromethane	19.17	0	20	0	95.8	85-115	0			
Surr: Toluene-d8	19.88	0	20	0	99.4	85-120	0			

LCS		Sample ID: VLCSW2-121210-R113707A				Units: µg/L		Analysis Date: 12/10/2012 10:51 PM		
Client ID:		Run ID: VMS8_121210B				SeqNo: 2164450		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	41.98	2.0	40	0	105	75-130	0			
Xylenes, Total	62.62	3.0	60	0	104	75-130	0			
Surr: 1,2-Dichloroethane-d4	18.02	0	20	0	90.1	70-120	0			
Surr: 4-Bromofluorobenzene	19.53	0	20	0	97.6	75-120	0			
Surr: Dibromofluoromethane	19.24	0	20	0	96.2	85-115	0			
Surr: Toluene-d8	19.35	0	20	0	96.8	85-120	0			

MS		Sample ID: 1212249-02A MS				Units: µg/L		Analysis Date: 12/11/2012 08:23 AM		
Client ID: MW-2		Run ID: VMS8_121210B				SeqNo: 2165368		Prep Date:		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	14260	200	3200	15860	-50.1	75-130	0			SO
Xylenes, Total	16600	300	4800	17020	-8.71	75-130	0			S
Surr: 1,2-Dichloroethane-d4	1825	0	2000	0	91.2	70-120	0			
Surr: 4-Bromofluorobenzene	1938	0	2000	0	96.9	75-120	0			
Surr: Dibromofluoromethane	1907	0	2000	0	95.4	85-115	0			
Surr: Toluene-d8	1953	0	2000	0	97.6	85-120	0			

MSD		Sample ID: 1212249-02A MSD				Units: µg/L		Analysis Date: 12/11/2012 08:46 AM		
Client ID: MW-2		Run ID: VMS8_121210B				SeqNo: 2165369		Prep Date:		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	14320	200	3200	15860	-48.2	75-130	14260	0.427	30	SO
Xylenes, Total	16700	300	4800	17020	-6.77	75-130	16600	0.559	30	S
Surr: 1,2-Dichloroethane-d4	1867	0	2000	0	93.4	70-120	1825	2.28	30	
Surr: 4-Bromofluorobenzene	2051	0	2000	0	103	75-120	1938	5.67	30	
Surr: Dibromofluoromethane	1976	0	2000	0	98.8	85-115	1907	3.55	30	
Surr: Toluene-d8	1977	0	2000	0	98.8	85-120	1953	1.22	30	

The following samples were analyzed in this batch:

1212249-02A

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **R113583** Instrument ID **WETCHEM** Method: **A4500-NO2 B**

MBLK	Sample ID: WBLKW1-121207-R113583					Units: mg/L		Analysis Date: 12/7/2012 11:00 AM		
Client ID:	Run ID: WETCHEM_121207C				SeqNo: 2161549		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite ND 0.020

LCS	Sample ID: WLCSW1-121207-R113583					Units: mg/L		Analysis Date: 12/7/2012 11:00 AM		
Client ID:	Run ID: WETCHEM_121207C				SeqNo: 2161550		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.1989 0.020 0.2 0 99.4 80-120 0

MS	Sample ID: 1212233-03B MS					Units: mg/L		Analysis Date: 12/7/2012 11:00 AM		
Client ID:	Run ID: WETCHEM_121207C				SeqNo: 2161554		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.188 0.020 0.2 0.0002 93.9 75-125 0

MSD	Sample ID: 1212233-03B MSD					Units: mg/L		Analysis Date: 12/7/2012 11:00 AM		
Client ID:	Run ID: WETCHEM_121207C				SeqNo: 2161555		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.1901 0.020 0.2 0.0002 95 75-125 0.188 1.11 20

The following samples were analyzed in this batch:

1212249-01D	1212249-02D	1212249-03D
1212249-04D		

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **R113868** Instrument ID **IC4** Method: **SW9056**

MBLK		Sample ID: MBLK-R113868				Units: mg/L		Analysis Date: 12/12/2012 02:01 PM		
Client ID:		Run ID: IC4_121212B				SeqNo: 2167808		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	ND	0.10								
Chloride	ND	1.0								
Fluoride	ND	0.10								
Sulfate	ND	1.0								

LCS		Sample ID: LCS-R113868				Units: mg/L		Analysis Date: 12/12/2012 02:21 PM		
Client ID:		Run ID: IC4_121212B				SeqNo: 2167809		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.923	0.10	2	0	96.2	88-113	0			
Chloride	9.606	1.0	10	0	96.1	88-107	0			
Fluoride	1.805	0.10	2	0	90.3	86-111	0			
Sulfate	9.91	1.0	10	0	99.1	85-110	0			

MS		Sample ID: 1212249-01D MS				Units: mg/L		Analysis Date: 12/12/2012 04:03 PM		
Client ID: MW-1		Run ID: IC4_121212B				SeqNo: 2167816		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.1	0.10	2	0.2642	91.8	75-125	0			
Fluoride	1.968	0.10	2	0.165	90.1	75-125	0			

MS		Sample ID: 1212249-01D MS				Units: mg/L		Analysis Date: 12/12/2012 06:45 PM		
Client ID: MW-1		Run ID: IC4_121212B				SeqNo: 2167828		Prep Date:		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	49.53	10	10	41.16	83.7	75-125	0			O
Sulfate	127.8	10	10	118.5	93.6	75-125	0			O

MSD		Sample ID: 1212249-01D MSD				Units: mg/L		Analysis Date: 12/12/2012 04:23 PM		
Client ID: MW-1		Run ID: IC4_121212B				SeqNo: 2167818		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.076	0.10	2	0.2642	90.6	75-125	2.1	1.17	20	
Fluoride	1.971	0.10	2	0.165	90.3	75-125	1.968	0.147	20	

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **R113868** Instrument ID **IC4** Method: **SW9056**

MSD		Sample ID: 1212249-01D MSD				Units: mg/L		Analysis Date: 12/12/2012 07:05 PM			
Client ID: MW-1		Run ID: IC4_121212B				SeqNo: 2167830		Prep Date:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	50.56	10	10	41.16	94	75-125	49.53	2.05	20	O	
Sulfate	129.3	10	10	118.5	108	75-125	127.8	1.12	20	O	

The following samples were analyzed in this batch:

1212249-01D	1212249-02D	1212249-03D
1212249-04D		

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

Client: HRL Compliance Solutions
Work Order: 1212249
Project: WPX TR 31-5 Monitor Well Pad 12/5/12

QC BATCH REPORT

Batch ID: **R113904** Instrument ID **LACHAT2** Method: **E353.2 R2.0**

MBLK	Sample ID: WBLKW1-121213-R113904					Units: mg/L		Analysis Date: 12/13/2012 01:58 PM		
Client ID:	Run ID: LACHAT2_121213E				SeqNo: 2168591		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate ND 0.020

LCS	Sample ID: WLCSW1-121213-R113904					Units: mg/L		Analysis Date: 12/13/2012 01:58 PM		
Client ID:	Run ID: LACHAT2_121213E				SeqNo: 2168592		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 4.81 0.020 5 0 96.2 80-120 0

MS	Sample ID: 1212375-03B MS					Units: mg/L		Analysis Date: 12/13/2012 01:58 PM		
Client ID:	Run ID: LACHAT2_121213E				SeqNo: 2168605		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 4.496 0.020 5 0 89.9 75-125 0

MSD	Sample ID: 1212375-03B MSD					Units: mg/L		Analysis Date: 12/13/2012 01:58 PM		
Client ID:	Run ID: LACHAT2_121213E				SeqNo: 2168606		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 4.506 0.020 5 0 90.1 75-125 4.496 0.222 20

The following samples were analyzed in this batch:

1212249-01E	1212249-02E	1212249-03E
1212249-04E		

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



ALS Laboratory Group

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Chain-of-Custody

Form 202r8

WORKORDER
#

1212249

PROJECT NAME		WPX TR 31-5 Monitor Well Samples		SAMPLER		Dan Pinegar		DATE		12/6/2012		PAGE		1 of 1	
PROJECT No.				SITE ID		TR 31-5 Well Pad		TURNAROUND		Std. 5 days		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL Compliance Solutions, Inc.		EDD FORMAT				BTEX GRO DRO Semi Vols -PAH Dissolved Metals -Cations Anions							
SEND REPORT TO		Mark Mumby		PURCHASE ORDER											
ADDRESS		2385 F 1/2 Rd.		BILL TO COMPANY		WPX									
CITY / STATE / ZIP		Grand Junction, CO. 81505		INVOICE ATTN TO		Karolina Blaney									
PHONE		970-243-3271		ADDRESS		1058 County Rd. 215									
FAX		970-243-3280		CITY / STATE / ZIP		Parachute CO, 81635									
E-MAIL		mmumby@hrlcomp.com		PHONE		970-285-9377		E-MAIL		Karolina.blaney@Williams.com					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
1	MW 1	WATER	12/5/2012	1:00 PM	10	8		X	X	X	X	X	X		
2	MW 2	WATER	12/5/2012	1:50 PM	10	8		X	X	X	X	X	X		
3	MW 3	WATER	12/5/2012	2:30 PM	10	8		X	X	X	X	X	X		
4	MW 4	WATER	12/5/2012	3:15 PM	10	8		X	X	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)

3.002

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	Dan Pinegar	12/6/2012	5:00 PM
RECEIVED BY	Karen Wiese	12/7/12	1200
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 07-Dec-12 12:00

Work Order: 1212249

Received by: KRW

Checklist completed by Keith Wurenga 07-Dec-12
eSignature Date

Reviewed by: Ann Preston 08-Dec-12
eSignature Date

Matrices: Water

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"/>	
Temperature(s)/Thermometer(s):	<u>3.0 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>12/7/2012 12:23:16 PM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

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ALS Environmental

3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 12-6-12 Time: 1700
Name: Dan Pinger
Company: HCSI

Seal Broken By:

Date:

0200

Form ID No.

FedEx Retrieval Copy

1 From
Date: 12-6-12 Sender's FedEx Account Number
Sender's Name: DAN PINGER Phone: 978 242 3771
Company: HCSI
Address: 2385 E 1/2 Rd
City: BRAND JUNCTION State: CO ZIP: 81505

2 Your Internal Billing Reference

3 To
Recipient's Name: RECEIVING Phone: 616 399-6070
Company: ALS GROUP
Recipient's Address: 3352 128th AVE
Address: HOLLAND State: MI ZIP: 49424

4a Express Package Service

☒ **FedEx Priority Overnight** Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **FedEx 2Day** Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **FedEx Standard Overnight** Next business afternoon.* Saturday Delivery NOT available.
☐ **FedEx Express Saver** Third business day.* Saturday Delivery NOT available.
FedEx Envelope rate not available. Minimum charge: One-pound rate.

4b Express Freight Service

☐ **FedEx 1Day Freight*** Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **FedEx 2Day Freight** Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
* Call for Confirmation: ** To most locations.

5 Packaging

☐ **FedEx Envelope*** ☐ **FedEx Pak*** Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. ☐ **FedEx Box** ☐ **FedEx Tube** ☒ **Other**
* Declared value limit \$500.

6 Special Handling

☐ **SATURDAY Delivery** Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
☐ **HOLD Weekday at FedEx Location** Not available for FedEx First Overnight.
☐ **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Does this shipment contain dangerous goods? One box must be checked.
☒ **No** ☐ **Yes** As per attached Shipper's Declaration. ☐ **Yes** Shipper's Declaration not required.
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.
☐ **Dry Ice** Dry ice, 9 UN 1845 x kg ☐ **Cargo Aircraft Only**

7 Payment

Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.
☐ **Sender** Acct. No. in Section 1 will be billed. ☒ **Recipient** ☐ **Third Party** ☐ **Credit Card** ☐ **Cash/Check**
Total Packages Total Weight

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.
☒ **No Signature Required** Package may be left without obtaining a signature for delivery.
☐ **Direct Signature** Someone at recipient's address may sign for delivery. Fee applies.
☐ **Indirect Signature** If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
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