

DISCLAIMER - This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Records office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.

4th Qtr 2014 Potentiometric Map
Location: Clough 14-22
 39.507060 -107.878716
 WPX Energy

- | | |
|----------------------|--------------------------------|
| Upgradient Well | Transportation Features |
| Downgradient Well | Public Roads |
| Potentiometric Lines | Access Roads |
| Excavated Area | Hydrographic Features |
| PLSS | Perennial Stream |
| Township | Ditch |
| Section | |



Table 1

Clough 14-22 MV Groundwater Analytical Results

Sample ID:		COGCC Table 910-1 Standards	MW 1 (Background)	MW 1 (Background)	MW 1 (Background)	MW2	MW2	MW2	MW 3	MW 3
Date Sampled:			6/26/2014	9/18/2014	11/21/2014	6/26/2014	9/18/2014	11/21/2014	6/26/2014	9/18/2014
Depth to Water (ft.)			18.09	18.71	18.6	18.03	18.69	18.55	18.35	18.99
GC/MS Volatiles (SW846 8260B)										
Benzene	ug/l	5 ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/l	700 ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/l	560 ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene (total)	ug/l	1400 ug/l	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Metals Analysis										
Calcium	mg/l		490	410	550	460	420	500	500	500
Iron	mg/l		<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Magnesium	mg/l		710	580	770	670	540	690	850	850
Manganese	mg/l		0.53	0.93	1.2	0.13	0.57	0.92	1.4	2.2
Potassium	mg/l		13	11	28	15	13	23	15	15
Selenium	mg/l		<0.05	<0.05	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05
Sodium	mg/l		4100	3600	4600	3800	3200	4100	4600	3700
General Chemistry										
Alkalinity, Bicarbonate as CaCO3	mg/l		750	810	810	700	790	780	780	860
Alkalinity, Carbonate	mg/l		<10	<10	<10	<10	<10	<10	<10	<10
Alkalinity, Total as CaCO3	mg/l		750	810	810	700	790	780	780	860
Nitrogen, Nitrate	mg/l		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrogen, Nitrite	mg/l		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloride	mg/l	1.25 x bkgd	3000	3100	3200	3000	2800	3200	3900	3700
Sulfate	mg/l	1.25 x bkgd	8100	8500	9300	7500	7700	7800	9300	9100
TDS	mg/l	1.25 x bkgd	17000	18000	18000	16000	17000	16000	21000	20000
pH			7.06	7.06	7.38	7.15	7.02	7.34	7.04	7.18

Table 1

Clough 14-22 MV Groundwater Analytical Results

Sample ID:		COGCC Table 910-1 Standards	MW 3	MW 4	MW 4	MW 4	MW 5	MW 5	MW 5
Date Sampled:			11/21/2014	6/26/2014	9/18/2014	11/21/2014	6/26/2014	9/18/2014	11/21/2014
Depth to Water (ft.)			18.84	18.55	19.2	19.06	18.65	19.31	19.18
GC/MS Volatiles (SW846 8260B)									
Benzene	ug/l	5 ug/l	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/l	700 ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/l	560 ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene (total)	ug/l	1400 ug/l	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Metals Analysis									
Calcium	mg/l		520	540	470	530	450	450	480
Iron	mg/l		<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Magnesium	mg/l		860	950	780	890	860	830	870
Manganese	mg/l		2.7	3	3.5	4.3	1.5	0.85	0.95
Potassium	mg/l		23	14	12	18	20	16	21
Selenium	mg/l		<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.10
Sodium	mg/l		5000	4900	4100	5800	5100	4600	6300
General Chemistry									
Alkalinity, Bicarbonate as CaCO3	mg/l		830	840	850	840	620	750	770
Alkalinity, Carbonate	mg/l		<10	<10	<10	<10	<10	<10	<10
Alkalinity, Total as CaCO3	mg/l		830	840	850	840	620	750	770
Nitrogen, Nitrate	mg/l		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrogen, Nitrite	mg/l		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloride	mg/l	1.25 x bkgd	3700	4600	3800	3500	4100	3800	4000
Sulfate	mg/l	1.25 x bkgd	9100	9500	8600	8700	11000	10000	10000
TDS	mg/l	1.25 x bkgd	20000	22000	20000	20000	20000	22000	22000
pH			7.3	6.91	7.06	7.3	7.44	7.19	7.46

Table 2

Field Data

YSI 556 Field Parameters →→			Temperature	Conductivity	Conductivity	Resistivity	TDS	Salinity	Dissolved Oxygen (DO)	Dissolved Oxygen (DO)	pH	pH	ORP	Water Levels
Sample Location	Media	Sampling Date	°C	mS/cm ²	mS/cm	Ω/cm	g/L		%	mg/L		m/V		TOC (ft)
MW-1	Groundwater	6/26/2014	15.97	21.87	18.1	55.26	14.22	13.20	39.00	3.53	7.05	-13.60	188.5	18.06
MW-1	Groundwater	9/18/2014	15.10	19.93	16.44	61.99	12.95	11.93	6.40	0.59	8.91	-17.5	224.10	18.71
MW-1	Groundwater	11/21/2014	14.27	22.76	18.09	5.27	14.79	13.78	16.20	1.52	6.92	-22.9	221.90	18.60
MW-2	Groundwater	6/26/2014	16.68	20.34	17.18	58.18	13.18	12.15	89.50	7.95	7.26	-22.9	154.60	18.03
MW-2	Groundwater	9/18/2014	15.45	18.99	15.51	64.51	12.32	11.30	5.20	0.49	6.89	-17.0	189.70	18.69
MW-2	Groundwater	11/21/2014	14.62	21.37	17.13	58.37	13.89	12.87	8.90	0.84	6.96	-24.9	187.30	18.55
MW-3	Groundwater	6/26/2014	17.10	24.61	20.9	47.82	15.98	14.99	46.00	4.00	7.04	-13.0	159.50	18.35
MW-3	Groundwater	9/18/2014	15.45	22.45	18.33	54.62	14.58	13.56	4.00	0.36	6.96	-20.5	174.40	18.99
MW-3	Groundwater	11/21/2014	14.50	24.95	19.95	50.13	16.22	15.23	6.40	0.60	6.89	-21.2	117.30	18.84
MW-4	Groundwater	6/26/2014	15.80	26.25	21.72	46.02	16.94	15.98	22.80	2.02	6.85	-4.3	168.10	18.55
MW-4	Groundwater	9/18/2014	15.73	22.77	18.74	53.37	14.79	13.78	2.30	0.21	6.79	-11.4	176.20	19.20
MW-4	Groundwater	11/21/2014	14.48	25.5	20.38	49.07	16.58	15.60	7.80	0.72	6.83	-18.0	126.40	19.06
MW-5	Groundwater	6/26/2014	17.28	26.67	22.76	43.93	17.32	16.87	22.70	1.95	7.62	-39.1	128.00	18.65
MW-5	Groundwater	9/18/2014	15.20	23.97	19.49	51.30	15.68	14.58	2.90	0.26	7.17	-32.5	-9.00	19.31
MW-5	Groundwater	11/21/2014	14.31	27.32	21.74	46.00	17.76	16.82	6.90	0.64	7.11	-32.9	-28.60	19.18



05-Dec-2014

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

Re: **WPX Clough 14-22 Monitoring Wells 11.21.14**

Work Order: **14111202**

Dear Mark,

ALS Environmental received 5 samples on 22-Nov-2014 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 26.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental ALS Environmental logo icon consisting of a small blue triangle with a yellow flame.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX Clough 14-22 Monitoring Wells 11.21.14
Work Order: 14111202

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>
14111202-01	MW1	Water		11/21/2014 10:50	11/22/2014 10:00	<input type="checkbox"/>
14111202-02	MW2	Water		11/21/2014 11:08	11/22/2014 10:00	<input type="checkbox"/>
14111202-03	MW3	Water		11/21/2014 11:20	11/22/2014 10:00	<input type="checkbox"/>
14111202-04	MW4	Water		11/21/2014 11:35	11/22/2014 10:00	<input type="checkbox"/>
14111202-05	MW5	Water		11/21/2014 11:48	11/22/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX Clough 14-22 Monitoring Wells 11.21.14
Work Order: 14111202

Case Narrative

Batch 65423 sample MW1, MW2 and MW5 reporting limits for Iron were elevated due to dilution for high concentrations of non-target analytes. Sample MW4 MS/MSD recovery for Potassium was above control limits. However, the MSD recovery and the RPD between the MS and MSD were in control. No qualification is required for Potassium. The MS/MSD recoveries for Calcium, Magnesium, Manganese and Sodium were outside control limits, however, the results in the parent sample were greater than 4x the spiked amount. No qualification is required for Calcium, Magnesium, Manganese and Sodium.

Batch R153672 sample MW1 MS/MSD recoveries for Chloride and Sulfate were below control limits; however, the results in the parent sample were greater than 4x the spiked amount. No qualification is required for Chloride and Sulfate.

Client: HRL Compliance Solutions, Inc
Project: WPX Clough 14-22 Monitoring Wells 11.21.14
WorkOrder: 14111202

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

ALS Group USA, Corp

Date: 05-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX Clough 14-22 Monitoring Wells 11.21.14
Sample ID: MW1
Collection Date: 11/21/2014 10:50 AM

Work Order: 14111202
Lab ID: 14111202-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP (DISSOLVED)			SW846 6010C		Prep: SW3005A / 11/25/14	Analyst: JEC
Calcium	550		5.0	mg/L	10	11/25/2014 05:29 PM
Iron	ND		0.80	mg/L	10	11/25/2014 05:29 PM
Magnesium	770		2.0	mg/L	10	11/25/2014 05:29 PM
Manganese	1.2		0.050	mg/L	10	11/25/2014 05:29 PM
Potassium	28		2.0	mg/L	10	11/25/2014 05:29 PM
Sodium	46,000		200	mg/L	1000	11/26/2014 01:57 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: JDW
Benzene	ND		1.0	µg/L	1	11/30/2014 11:30 AM
Ethylbenzene	ND		1.0	µg/L	1	11/30/2014 11:30 AM
m,p-Xylene	ND		2.0	µg/L	1	11/30/2014 11:30 AM
o-Xylene	ND		1.0	µg/L	1	11/30/2014 11:30 AM
Toluene	ND		1.0	µg/L	1	11/30/2014 11:30 AM
Xylenes, Total	ND		3.0	µg/L	1	11/30/2014 11:30 AM
Surr: 1,2-Dichloroethane-d4	98.8		75-120	%REC	1	11/30/2014 11:30 AM
Surr: 4-Bromofluorobenzene	95.8		80-110	%REC	1	11/30/2014 11:30 AM
Surr: Dibromofluoromethane	95.2		85-115	%REC	1	11/30/2014 11:30 AM
Surr: Toluene-d8	101		85-110	%REC	1	11/30/2014 11:30 AM
ALKALINITY			A2320 B-97			Analyst: JB
Alkalinity, Bicarbonate (as CaCO3)	810		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Total (as CaCO3)	810		12	mg/L	1	11/25/2014 05:36 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: JJG
Chloride	3,200		500	mg/L	500	12/4/2014 02:05 AM
Sulfate	9,300		500	mg/L	500	12/4/2014 02:05 AM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JJG
Nitrogen, Nitrite	ND		0.020	mg/L	1	11/22/2014 02:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	11/24/2014 01:20 PM
PH (LABORATORY)			SW9040			Analyst: JB
pH (laboratory)	7.38			s.u.	1	11/25/2014 05:36 PM
TOTAL DISSOLVED SOLIDS			A2540 C-97		Prep: Water Ext. / 11/30/14	Analyst: STP
Total Dissolved Solids	18,000		20	mg/L	1	12/1/2014 08:30 AM

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

ALS Group USA, Corp

Date: 05-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX Clough 14-22 Monitoring Wells 11.21.14
Sample ID: MW2
Collection Date: 11/21/2014 11:08 AM

Work Order: 14111202
Lab ID: 14111202-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP (DISSOLVED)			SW846 6010C		Prep: SW3005A / 11/25/14	Analyst: JEC
Calcium	500		5.0	mg/L	10	11/25/2014 05:35 PM
Iron	ND		0.80	mg/L	10	11/25/2014 05:35 PM
Magnesium	690		2.0	mg/L	10	11/25/2014 05:35 PM
Manganese	0.92		0.050	mg/L	10	11/25/2014 05:35 PM
Potassium	23		2.0	mg/L	10	11/25/2014 05:35 PM
Sodium	41,000		200	mg/L	1000	11/26/2014 02:03 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: JDW
Benzene	ND		1.0	µg/L	1	11/30/2014 11:55 AM
Ethylbenzene	ND		1.0	µg/L	1	11/30/2014 11:55 AM
m,p-Xylene	ND		2.0	µg/L	1	11/30/2014 11:55 AM
o-Xylene	ND		1.0	µg/L	1	11/30/2014 11:55 AM
Toluene	ND		1.0	µg/L	1	11/30/2014 11:55 AM
Xylenes, Total	ND		3.0	µg/L	1	11/30/2014 11:55 AM
Surr: 1,2-Dichloroethane-d4	98.0		75-120	%REC	1	11/30/2014 11:55 AM
Surr: 4-Bromofluorobenzene	97.3		80-110	%REC	1	11/30/2014 11:55 AM
Surr: Dibromofluoromethane	94.4		85-115	%REC	1	11/30/2014 11:55 AM
Surr: Toluene-d8	102		85-110	%REC	1	11/30/2014 11:55 AM
ALKALINITY			A2320 B-97			Analyst: JB
Alkalinity, Bicarbonate (as CaCO3)	780		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Total (as CaCO3)	780		12	mg/L	1	11/25/2014 05:36 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: JJG
Chloride	3,200		200	mg/L	200	12/4/2014 04:55 PM
Sulfate	7,800		1,000	mg/L	1000	12/4/2014 05:15 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JJG
Nitrogen, Nitrite	ND		0.020	mg/L	1	11/22/2014 02:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	11/24/2014 01:20 PM
PH (LABORATORY)			SW9040			Analyst: JB
pH (laboratory)	7.34			s.u.	1	11/25/2014 05:36 PM
TOTAL DISSOLVED SOLIDS			A2540 C-97		Prep: Water Ext. / 11/30/14	Analyst: STP
Total Dissolved Solids	16,000		20	mg/L	1	12/1/2014 08:30 AM

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

ALS Group USA, Corp

Date: 05-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX Clough 14-22 Monitoring Wells 11.21.14
Sample ID: MW3
Collection Date: 11/21/2014 11:20 AM

Work Order: 14111202
Lab ID: 14111202-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP (DISSOLVED)			SW846 6010C		Prep: SW3005A / 11/25/14	Analyst: JEC
Calcium	520		5.0	mg/L	10	11/25/2014 05:41 PM
Iron	ND		0.80	mg/L	10	11/25/2014 05:41 PM
Magnesium	860		2.0	mg/L	10	11/25/2014 05:41 PM
Manganese	2.7		0.050	mg/L	10	11/25/2014 05:41 PM
Potassium	23		2.0	mg/L	10	11/25/2014 05:41 PM
Sodium	50,000		200	mg/L	1000	11/26/2014 02:09 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: JDW
Benzene	1.4		1.0	µg/L	1	11/30/2014 12:20 PM
Ethylbenzene	ND		1.0	µg/L	1	11/30/2014 12:20 PM
m,p-Xylene	ND		2.0	µg/L	1	11/30/2014 12:20 PM
o-Xylene	ND		1.0	µg/L	1	11/30/2014 12:20 PM
Toluene	ND		1.0	µg/L	1	11/30/2014 12:20 PM
Xylenes, Total	ND		3.0	µg/L	1	11/30/2014 12:20 PM
Surr: 1,2-Dichloroethane-d4	96.4		75-120	%REC	1	11/30/2014 12:20 PM
Surr: 4-Bromofluorobenzene	94.6		80-110	%REC	1	11/30/2014 12:20 PM
Surr: Dibromofluoromethane	94.4		85-115	%REC	1	11/30/2014 12:20 PM
Surr: Toluene-d8	99.4		85-110	%REC	1	11/30/2014 12:20 PM
ALKALINITY			A2320 B-97			Analyst: JB
Alkalinity, Bicarbonate (as CaCO3)	830		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Total (as CaCO3)	830		12	mg/L	1	11/25/2014 05:36 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: JJG
Chloride	3,700		500	mg/L	500	12/4/2014 05:36 PM
Sulfate	9,100		500	mg/L	500	12/4/2014 05:36 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JJG
Nitrogen, Nitrite	ND		0.020	mg/L	1	11/22/2014 02:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	11/24/2014 01:20 PM
PH (LABORATORY)			SW9040			Analyst: JB
pH (laboratory)	7.30			s.u.	1	11/25/2014 05:36 PM
TOTAL DISSOLVED SOLIDS			A2540 C-97		Prep: Water Ext. / 11/30/14	Analyst: STP
Total Dissolved Solids	20,000		20	mg/L	1	12/1/2014 08:30 AM

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

ALS Group USA, Corp

Date: 05-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX Clough 14-22 Monitoring Wells 11.21.14
Sample ID: MW4
Collection Date: 11/21/2014 11:35 AM

Work Order: 14111202
Lab ID: 14111202-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP (DISSOLVED)			SW846 6010C		Prep: SW3005A / 11/25/14	Analyst: JEC
Calcium	530		5.0	mg/L	10	11/26/2014 08:53 AM
Iron	ND		0.80	mg/L	10	11/26/2014 08:53 AM
Magnesium	890		2.0	mg/L	10	11/26/2014 08:53 AM
Manganese	4.3		0.050	mg/L	10	11/26/2014 08:53 AM
Potassium	18		2.0	mg/L	10	11/26/2014 08:53 AM
Sodium	5,800		20	mg/L	100	11/26/2014 12:59 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: JDW
Benzene	ND		1.0	µg/L	1	11/30/2014 12:46 PM
Ethylbenzene	ND		1.0	µg/L	1	11/30/2014 12:46 PM
m,p-Xylene	ND		2.0	µg/L	1	11/30/2014 12:46 PM
o-Xylene	ND		1.0	µg/L	1	11/30/2014 12:46 PM
Toluene	ND		1.0	µg/L	1	11/30/2014 12:46 PM
Xylenes, Total	ND		3.0	µg/L	1	11/30/2014 12:46 PM
Surr: 1,2-Dichloroethane-d4	98.4		75-120	%REC	1	11/30/2014 12:46 PM
Surr: 4-Bromofluorobenzene	94.6		80-110	%REC	1	11/30/2014 12:46 PM
Surr: Dibromofluoromethane	95.8		85-115	%REC	1	11/30/2014 12:46 PM
Surr: Toluene-d8	101		85-110	%REC	1	11/30/2014 12:46 PM
ALKALINITY			A2320 B-97			Analyst: JB
Alkalinity, Bicarbonate (as CaCO3)	840		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Total (as CaCO3)	840		12	mg/L	1	11/25/2014 05:36 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: JJG
Chloride	3,500		500	mg/L	500	12/3/2014 04:38 PM
Sulfate	8,700		500	mg/L	500	12/3/2014 04:38 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JJG
Nitrogen, Nitrite	ND		0.020	mg/L	1	11/22/2014 02:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	11/24/2014 01:20 PM
PH (LABORATORY)			SW9040			Analyst: JB
pH (laboratory)	7.30			s.u.	1	11/25/2014 05:36 PM
TOTAL DISSOLVED SOLIDS			A2540 C-97		Prep: Water Ext. / 11/30/14	Analyst: STP
Total Dissolved Solids	20,000		20	mg/L	1	12/1/2014 08:30 AM

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

ALS Group USA, Corp

Date: 05-Dec-14

Client: HRL Compliance Solutions, Inc
Project: WPX Clough 14-22 Monitoring Wells 11.21.14
Sample ID: MW5
Collection Date: 11/21/2014 11:48 AM

Work Order: 14111202
Lab ID: 14111202-05
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP (DISSOLVED)			SW846 6010C		Prep: SW3005A / 11/25/14	Analyst: JEC
Calcium	480		5.0	mg/L	10	11/26/2014 09:10 AM
Iron	ND		0.80	mg/L	10	11/26/2014 09:10 AM
Magnesium	870		2.0	mg/L	10	11/26/2014 09:10 AM
Manganese	0.95		0.050	mg/L	10	11/26/2014 09:10 AM
Potassium	21		2.0	mg/L	10	11/26/2014 09:10 AM
Sodium	630		2.0	mg/L	10	11/26/2014 01:04 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	12/1/2014 01:18 PM
Ethylbenzene	ND		1.0	µg/L	1	12/1/2014 01:18 PM
m,p-Xylene	ND		2.0	µg/L	1	12/1/2014 01:18 PM
o-Xylene	ND		1.0	µg/L	1	12/1/2014 01:18 PM
Toluene	ND		1.0	µg/L	1	12/1/2014 01:18 PM
Xylenes, Total	ND		3.0	µg/L	1	12/1/2014 01:18 PM
Surr: 1,2-Dichloroethane-d4	100		75-120	%REC	1	12/1/2014 01:18 PM
Surr: 4-Bromofluorobenzene	97.4		80-110	%REC	1	12/1/2014 01:18 PM
Surr: Dibromofluoromethane	99.6		85-115	%REC	1	12/1/2014 01:18 PM
Surr: Toluene-d8	98.0		85-110	%REC	1	12/1/2014 01:18 PM
ALKALINITY			A2320 B-97			Analyst: JB
Alkalinity, Bicarbonate (as CaCO3)	770		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	11/25/2014 05:36 PM
Alkalinity, Total (as CaCO3)	770		12	mg/L	1	11/25/2014 05:36 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: JJG
Chloride	4,000		500	mg/L	500	12/3/2014 05:18 PM
Sulfate	10,000		1,000	mg/L	1000	12/3/2014 05:39 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: JJG
Nitrogen, Nitrite	ND		0.020	mg/L	1	11/22/2014 02:00 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	11/24/2014 01:20 PM
PH (LABORATORY)			SW9040			Analyst: JB
pH (laboratory)	7.46			s.u.	1	11/25/2014 05:36 PM
TOTAL DISSOLVED SOLIDS			A2540 C-97		Prep: Water Ext. / 11/30/14	Analyst: STP
Total Dissolved Solids	22,000		20	mg/L	1	12/1/2014 08:30 AM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 14111202

Project: WPX Clough 14-22 Monitoring Wells 11.21.14

Batch ID: **65423**

Instrument ID **ICP2**

Method: **SW846 6010C**

MBLK		Sample ID: MBLK-65423-65423				Units: mg/L		Analysis Date: 11/25/2014 04:49 PM			
Client ID:		Run ID: ICP2_141125A				SeqNo: 3053681		Prep Date: 11/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	ND	0.50									
Iron	ND	0.080									
Magnesium	ND	0.20									
Manganese	ND	0.0050									
Potassium	ND	0.20									

MBLK		Sample ID: MBLK-65417-65423				Units: mg/L		Analysis Date: 11/25/2014 05:06 PM			
Client ID:		Run ID: ICP2_141125A				SeqNo: 3053688		Prep Date: 11/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	ND	0.50									
Iron	ND	0.080									
Magnesium	ND	0.20									
Manganese	ND	0.0050									
Potassium	ND	0.20									

MBLK		Sample ID: MBLK-65423-65423				Units: mg/L		Analysis Date: 11/26/2014 10:15 AM			
Client ID:		Run ID: ICP2_141126A				SeqNo: 3054392		Prep Date: 11/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sodium	0.04703	0.20								J	

MBLK		Sample ID: MBLK-65417-65423				Units: mg/L		Analysis Date: 11/26/2014 10:26 AM			
Client ID:		Run ID: ICP2_141126A				SeqNo: 3054395		Prep Date: 11/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sodium	0.05904	0.20								J	

LCS		Sample ID: LCS-65423-65423				Units: mg/L		Analysis Date: 11/25/2014 04:55 PM			
Client ID:		Run ID: ICP2_141125A				SeqNo: 3053684		Prep Date: 11/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	9.522	0.50	10	0	95.2	80-120	0				
Iron	9.496	0.080	10	0	95	80-120	0				
Magnesium	9.697	0.20	10	0	97	80-120	0				
Manganese	0.0953	0.0050	0.1	0	95.3	80-120	0				
Potassium	9.452	0.20	10	0	94.5	80-120	0				

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14111202
 Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **65423** Instrument ID **ICP2** Method: **SW846 6010C**

LCS		Sample ID: LCS-65417-65423				Units: mg/L		Analysis Date: 11/25/2014 05:00 PM			
Client ID:		Run ID: ICP2_141125A				SeqNo: 3053686		Prep Date: 11/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	9.579	0.50	10	0	95.8	80-120	0				
Iron	9.518	0.080	10	0	95.2	80-120	0				
Magnesium	9.712	0.20	10	0	97.1	80-120	0				
Manganese	0.09687	0.0050	0.1	0	96.9	80-120	0				
Potassium	9.505	0.20	10	0	95	80-120	0				

LCS		Sample ID: LCS-65423-65423				Units: mg/L		Analysis Date: 11/26/2014 10:20 AM			
Client ID:		Run ID: ICP2_141126A				SeqNo: 3054393		Prep Date: 11/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sodium	9.479	0.20	10	0	94.8	80-120	0				

LCS		Sample ID: LCS-65417-65423				Units: mg/L		Analysis Date: 11/26/2014 10:39 AM			
Client ID:		Run ID: ICP2_141126A				SeqNo: 3054397		Prep Date: 11/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sodium	9.496	0.20	10	0	95	80-120	0				

MS		Sample ID: 14111202-04BMS				Units: mg/L		Analysis Date: 11/26/2014 08:59 AM			
Client ID: MW4		Run ID: ICP2_141126A				SeqNo: 3054054		Prep Date: 11/25/2014		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	566.6	5.0	10	533.4	332	75-125	0			SO	
Iron	10.85	0.80	10	0.007937	108	75-125	0				
Magnesium	948.5	2.0	10	894.7	538	75-125	0			SO	
Manganese	4.562	0.050	0.1	4.345	217	75-125	0			SO	
Potassium	30.19	2.0	10	17.67	125	75-125	0			S	
Sodium	4842	2.0	10	4693	1490	75-125	0			SEO	

MSD		Sample ID: 14111202-04BMSD				Units: mg/L		Analysis Date: 11/26/2014 09:04 AM			
Client ID: MW4		Run ID: ICP2_141126A				SeqNo: 3054055		Prep Date: 11/25/2014		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	520.9	5.0	10	533.4	-125	75-125	566.6	8.4	20	SO	
Iron	10.06	0.80	10	0.007937	101	75-125	10.85	7.56	20		
Magnesium	867.9	2.0	10	894.7	-269	75-125	948.5	8.88	20	SO	
Manganese	4.253	0.050	0.1	4.345	-92	75-125	4.562	7.02	20	SO	
Potassium	27.48	2.0	10	17.67	98.1	75-125	30.19	9.4	20		
Sodium	4467	2.0	10	4693	-2260	75-125	4842	8.05	20	SEO	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111202
Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **65423** Instrument ID **ICP2** Method: **SW846 6010C**

The following samples were analyzed in this batch:

14111202-01B	14111202-02B	14111202-03B
14111202-04B	14111202-05B	

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14111202
 Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **R153383** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: VBLKW2-141129-R153383				Units: µg/L		Analysis Date: 11/30/2014 10:39 AM		
Client ID:		Run ID: VMS9_141129B				SeqNo: 3055954		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	19.25	0	20	0	96.2	75-120	0			
Surr: 4-Bromofluorobenzene	19.3	0	20	0	96.5	80-110	0			
Surr: Dibromofluoromethane	18.91	0	20	0	94.6	85-115	0			
Surr: Toluene-d8	19.74	0	20	0	98.7	85-110	0			

LCS		Sample ID: VLCSW2-141129-R153383				Units: µg/L		Analysis Date: 11/30/2014 09:23 AM		
Client ID:		Run ID: VMS9_141129B				SeqNo: 3055953		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.9	1.0	20	0	110	85-125	0			
Ethylbenzene	22.39	1.0	20	0	112	85-125	0			
m,p-Xylene	44	2.0	40	0	110	75-130	0			
o-Xylene	22.55	1.0	20	0	113	80-125	0			
Toluene	21.67	1.0	20	0	108	85-125	0			
Xylenes, Total	66.55	3.0	60	0	111	80-126	0			
Surr: 1,2-Dichloroethane-d4	18.98	0	20	0	94.9	75-120	0			
Surr: 4-Bromofluorobenzene	19.75	0	20	0	98.8	80-110	0			
Surr: Dibromofluoromethane	20	0	20	0	100	85-115	0			
Surr: Toluene-d8	20.26	0	20	0	101	85-110	0			

MS		Sample ID: 14111215-01A MS				Units: µg/L		Analysis Date: 11/30/2014 07:55 PM		
Client ID:		Run ID: VMS9_141129B				SeqNo: 3055975		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.2	1.0	20	0	116	85-125	0			
Ethylbenzene	23.1	1.0	20	0	116	85-125	0			
m,p-Xylene	44.52	2.0	40	0	111	75-130	0			
o-Xylene	23	1.0	20	0	115	80-125	0			
Toluene	22.6	1.0	20	0	113	85-125	0			
Xylenes, Total	67.52	3.0	60	0	113	80-126	0			
Surr: 1,2-Dichloroethane-d4	19.01	0	20	0	95	75-120	0			
Surr: 4-Bromofluorobenzene	19.91	0	20	0	99.6	80-110	0			
Surr: Dibromofluoromethane	19.87	0	20	0	99.4	85-115	0			
Surr: Toluene-d8	20.12	0	20	0	101	85-110	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111202
Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **R153383** Instrument ID **VMS9** Method: **SW8260**

MSD		Sample ID: 14111215-01A MSD				Units: µg/L		Analysis Date: 11/30/2014 08:20 PM		
Client ID:		Run ID: VMS9_141129B			SeqNo: 3055976		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.46	1.0	20	0	112	85-125	23.2	3.24	30	
Ethylbenzene	22.64	1.0	20	0	113	85-125	23.1	2.01	30	
m,p-Xylene	43.53	2.0	40	0	109	75-130	44.52	2.25	30	
o-Xylene	22.6	1.0	20	0	113	80-125	23	1.75	30	
Toluene	21.78	1.0	20	0	109	85-125	22.6	3.7	30	
Xylenes, Total	66.13	3.0	60	0	110	80-126	67.52	2.08	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	18.69	0	20	0	93.4	75-120	19.01	1.7	30	
<i>Surr: 4-Bromofluorobenzene</i>	20.02	0	20	0	100	80-110	19.91	0.551	30	
<i>Surr: Dibromofluoromethane</i>	20.22	0	20	0	101	85-115	19.87	1.75	30	
<i>Surr: Toluene-d8</i>	20.36	0	20	0	102	85-110	20.12	1.19	30	

The following samples were analyzed in this batch:

14111202-01A	14111202-02A	14111202-03A
14111202-04A	14111202-05A	

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14111202
 Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **R153388** Instrument ID **VMS6** Method: **SW8260**

MBLK		Sample ID: VBLKW1-141201-R153388				Units: µg/L		Analysis Date: 12/1/2014 12:51 PM		
Client ID:		Run ID: VMS6_141201A				SeqNo: 3056986		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	19.58	0	20	0	97.9	75-120	0			
Surr: 4-Bromofluorobenzene	19.97	0	20	0	99.8	80-110	0			
Surr: Dibromofluoromethane	20.01	0	20	0	100	85-115	0			
Surr: Toluene-d8	19.49	0	20	0	97.4	85-110	0			

LCS		Sample ID: VLCSW1-141201-R153388				Units: µg/L		Analysis Date: 12/1/2014 11:59 AM		
Client ID:		Run ID: VMS6_141201A				SeqNo: 3056984		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	40.05	1.0	40	0	100	85-125	0			
Ethylbenzene	39.67	1.0	40	0	99.2	85-125	0			
m,p-Xylene	76.89	2.0	80	0	96.1	75-130	0			
o-Xylene	38.36	1.0	40	0	95.9	80-125	0			
Toluene	38.31	1.0	40	0	95.8	85-125	0			
Xylenes, Total	115.2	3.0	120	0	96	80-126	0			
Surr: 1,2-Dichloroethane-d4	19.65	0	20	0	98.2	75-120	0			
Surr: 4-Bromofluorobenzene	19.95	0	20	0	99.8	80-110	0			
Surr: Dibromofluoromethane	20.61	0	20	0	103	85-115	0			
Surr: Toluene-d8	19.29	0	20	0	96.4	85-110	0			

MS		Sample ID: 14111150-05A MS				Units: µg/L		Analysis Date: 12/1/2014 10:03 PM		
Client ID:		Run ID: VMS6_141201A				SeqNo: 3057014		Prep Date:		DF: 500
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	12200	500	10000	1030	112	85-125	0			
Ethylbenzene	13380	500	10000	1530	119	85-125	0			
m,p-Xylene	28320	1,000	20000	5470	114	75-130	0			
o-Xylene	13360	500	10000	2055	113	80-125	0			
Toluene	20420	500	10000	9655	108	85-125	0			
Xylenes, Total	41670	1,500	30000	7525	114	80-126	0			
Surr: 1,2-Dichloroethane-d4	9425	0	10000	0	94.2	75-120	0			
Surr: 4-Bromofluorobenzene	10110	0	10000	0	101	80-110	0			
Surr: Dibromofluoromethane	9465	0	10000	0	94.6	85-115	0			
Surr: Toluene-d8	9565	0	10000	0	95.6	85-110	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111202
Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **R153388** Instrument ID **VMS6** Method: **SW8260**

MSD		Sample ID: 14111150-05A MSD				Units: µg/L		Analysis Date: 12/1/2014 10:29 PM		
Client ID:		Run ID: VMS6_141201A			SeqNo: 3057016		Prep Date:		DF: 500	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	12180	500	10000	1030	112	85-125	12200	0.082	30	
Ethylbenzene	12640	500	10000	1530	111	85-125	13380	5.76	30	
m,p-Xylene	27210	1,000	20000	5470	109	75-130	28320	3.98	30	
o-Xylene	12940	500	10000	2055	109	80-125	13360	3.2	30	
Toluene	19740	500	10000	9655	101	85-125	20420	3.39	30	
Xylenes, Total	40140	1,500	30000	7525	109	80-126	41670	3.73	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	9660	0	10000	0	96.6	75-120	9425	2.46	30	
<i>Surr: 4-Bromofluorobenzene</i>	10040	0	10000	0	100	80-110	10110	0.695	30	
<i>Surr: Dibromofluoromethane</i>	10220	0	10000	0	102	85-115	9465	7.72	30	
<i>Surr: Toluene-d8</i>	9595	0	10000	0	96	85-110	9565	0.313	30	

The following samples were analyzed in this batch: | 14111202-05A |

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14111202
 Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **65499** Instrument ID **TDS** Method: **A2540 C-97**

MBLK	Sample ID: MBLK-65499-65499		Units: mg/L		Analysis Date: 12/1/2014 08:30 AM					
Client ID:	Run ID: TDS_141201A		SeqNo: 3057962		Prep Date: 11/30/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids ND 10

LCS	Sample ID: LCS-65499-65499		Units: mg/L		Analysis Date: 12/1/2014 08:30 AM					
Client ID:	Run ID: TDS_141201A		SeqNo: 3057961		Prep Date: 11/30/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 477 10 495 0 96.4 80-120 0

DUP	Sample ID: 14111202-02B DUP		Units: mg/L		Analysis Date: 12/1/2014 08:30 AM					
Client ID: MW2	Run ID: TDS_141201A		SeqNo: 3057955		Prep Date: 11/30/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 16660 20 0 0 0 0-0 16470 1.16 20

DUP	Sample ID: 14111202-03B DUP		Units: mg/L		Analysis Date: 12/1/2014 08:30 AM					
Client ID: MW3	Run ID: TDS_141201A		SeqNo: 3057957		Prep Date: 11/30/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 19410 20 0 0 0 0-0 19590 0.882 20

The following samples were analyzed in this batch:

14111202-01B	14111202-02B	14111202-03B
14111202-04B	14111202-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111202
Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **R153024** Instrument ID **WETCHEM** Method: **A4500-NO2 B**

MBLK	Sample ID: WBLKW1-141122-R153024				Units: mg/L			Analysis Date: 11/22/2014 02:00 PM		
Client ID:	Run ID: WETCHEM_141122B				SeqNo: 3048223		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: WLCSW1-141122-R153024				Units: mg/L			Analysis Date: 11/22/2014 02:00 PM		
Client ID:	Run ID: WETCHEM_141122B				SeqNo: 3048224		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.2192 0.020 0.2 0 110 80-120 0

MS	Sample ID: 14111202-01B MS				Units: mg/L			Analysis Date: 11/22/2014 02:00 PM		
Client ID: MW1	Run ID: WETCHEM_141122B				SeqNo: 3048226		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.1842 0.020 0.2 0.0035 90.4 75-125 0

MSD	Sample ID: 14111202-01B MSD				Units: mg/L			Analysis Date: 11/22/2014 02:00 PM		
Client ID: MW1	Run ID: WETCHEM_141122B				SeqNo: 3048227		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.1839 0.020 0.2 0.0035 90.2 75-125 0.1842 0.163 20

The following samples were analyzed in this batch:

14111202-01B	14111202-02B	14111202-03B
14111202-04B	14111202-05B	

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14111202
 Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: R153165 Instrument ID LACHAT2 Method: E353.2 R2.0

MBLK	Sample ID: WBLKW1-141124-R153165		Units: mg/L		Analysis Date: 11/24/2014 01:20 PM					
Client ID:	Run ID: LACHAT2_141124J		SeqNo: 3051786		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: WLCSW-141124-R153165		Units: mg/L		Analysis Date: 11/24/2014 01:20 PM					
Client ID:	Run ID: LACHAT2_141124J		SeqNo: 3051787		Prep Date:					
					DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 5.047 0.020 5 0 101 90-110 0

MS	Sample ID: 14111069-01D MS		Units: mg/L		Analysis Date: 11/24/2014 01:20 PM					
Client ID:	Run ID: LACHAT2_141124J		SeqNo: 3051790		Prep Date:					
					DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 5.271 0.020 5 0.5624 94.2 90-110 0

MS	Sample ID: 14111202-02C MS		Units: mg/L		Analysis Date: 11/24/2014 01:20 PM					
Client ID: MW2	Run ID: LACHAT2_141124J		SeqNo: 3051812		Prep Date:					
					DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 4.796 0.020 5 0 95.9 90-110 0

MSD	Sample ID: 14111069-01D MSD		Units: mg/L		Analysis Date: 11/24/2014 01:20 PM					
Client ID:	Run ID: LACHAT2_141124J		SeqNo: 3051791		Prep Date:					
					DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 5.275 0.020 5 0.5624 94.3 90-110 5.271 0.0759 20

mSD	Sample ID: 14111202-02C MSD		Units: mg/L		Analysis Date: 11/24/2014 01:20 PM					
Client ID: MW2	Run ID: LACHAT2_141124J		SeqNo: 3051813		Prep Date:					
					DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 4.752 0.020 5 0 95 90-110 4.796 0.922 20

The following samples were analyzed in this batch:

14111202-01C	14111202-02C	14111202-03C
14111202-04C		

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111202
Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **R153167** Instrument ID **LACHAT2** Method: **E353.2 R2.0**

MBLK	Sample ID: WBLKW1-141124-R153167					Units: mg/L		Analysis Date: 11/24/2014 01:20 PM		
Client ID:	Run ID: LACHAT2_141124K			SeqNo: 3051827		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: WLCSW1-141124-R153167					Units: mg/L		Analysis Date: 11/24/2014 01:20 PM		
Client ID:	Run ID: LACHAT2_141124K			SeqNo: 3051828		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 5.013 0.020 5 0 100 90-110 0

MS	Sample ID: 1411147-19A MS					Units: mg/L		Analysis Date: 11/24/2014 01:20 PM		
Client ID:	Run ID: LACHAT2_141124K			SeqNo: 3051832		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 5.987 0.020 5 1.199 95.8 90-110 0

MSD	Sample ID: 1411147-19A MSD					Units: mg/L		Analysis Date: 11/24/2014 01:20 PM		
Client ID:	Run ID: LACHAT2_141124K			SeqNo: 3051833		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 6.005 0.020 5 1.199 96.1 90-110 5.987 0.3 20

The following samples were analyzed in this batch:

14111202-05C

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14111202
 Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **R153248** Instrument ID **Titrator 1** Method: **A2320 B-97**

MBLK		Sample ID: WBLKW1-141125-R153248				Units: mg/L		Analysis Date: 11/25/2014 05:36 PM		
Client ID:		Run ID: TITRATOR 1_141125C				SeqNo: 3053573		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (as CaCO3)	4.22	10								J
Alkalinity, Carbonate (as CaCO3)	ND	10								
Alkalinity, Total (as CaCO3)	4.22	12								J

LCS		Sample ID: WLCSW1-141125-R153248				Units: mg/L		Analysis Date: 11/25/2014 05:36 PM		
Client ID:		Run ID: TITRATOR 1_141125C				SeqNo: 3053574		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (as CaCO3)	897.6	10	925	0	97	70-130	0			
Alkalinity, Total (as CaCO3)	936.3	12	1000	0	93.6	90-106	0			

LCS		Sample ID: WLCSW-141125-R153248				Units: s.u.		Analysis Date: 11/25/2014 05:36 PM		
Client ID:		Run ID: TITRATOR 1_141125C				SeqNo: 3053591		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	4.4	0	4.4	0	100	90-110	0			

LCS		Sample ID: WLCSW1-141125-R153248				Units: s.u.		Analysis Date: 11/25/2014 05:36 PM		
Client ID:		Run ID: TITRATOR 1_141125C				SeqNo: 3053602		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	4.4	0	4.4	0	100	90-110	0			

DUP		Sample ID: 14111265-01A DUP				Units: mg/L		Analysis Date: 11/25/2014 05:36 PM		
Client ID:		Run ID: TITRATOR 1_141125C				SeqNo: 3053581		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	166.5	12	0	0	0		170.8	2.57	20	

DUP		Sample ID: 14111255-02C DUP				Units: s.u.		Analysis Date: 11/25/2014 05:36 PM		
Client ID:		Run ID: TITRATOR 1_141125C				SeqNo: 3053597		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	7.89	0	0	0	0	0-0	7.9	0.127	20	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111202
Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **R153248** Instrument ID **Titrator 1** Method: **A2320 B-97**

DUP	Sample ID: 14111265-01A DUP				Units: s.u.		Analysis Date: 11/25/2014 05:36 PM			
Client ID:	Run ID: TITRATOR 1_141125C			SeqNo: 3053599		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	8.52	0	0	0	0	0-0	8.48	0.471	20	

The following samples were analyzed in this batch:

14111202-01B	14111202-02B	14111202-03B
14111202-04B	14111202-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14111202
Project: WPX Clough 14-22 Monitoring Wells 11.21.14

QC BATCH REPORT

Batch ID: **R153672** Instrument ID **IC3** Method: **SW9056**

MBLK	Sample ID: CCB/MBLANK-R153672				Units: mg/L			Analysis Date: 12/3/2014 11:27 AM		
Client ID:	Run ID: IC3_141203A				SeqNo: 3062381		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	ND	1.0								
Sulfate	ND	1.0								

LCS	Sample ID: CCV/LCS-R153672				Units: mg/L			Analysis Date: 12/3/2014 11:48 AM		
Client ID:	Run ID: IC3_141203A				SeqNo: 3062382		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	9.495	1.0	10	0	95	88-110	0			
Sulfate	9.76	1.0	10	0	97.6	85-110	0			

MS	Sample ID: 14111202-01B MS				Units: mg/L			Analysis Date: 12/4/2014 02:25 AM		
Client ID: MW1	Run ID: IC3_141203A				SeqNo: 3062425		Prep Date:		DF: 500	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	2821	500	10	3205	-3840	75-125	0			SO
Sulfate	8246	500	10	9344	-11000	75-125	0			SO

MSD	Sample ID: 14111202-01B MSD				Units: mg/L			Analysis Date: 12/4/2014 02:45 AM		
Client ID: MW1	Run ID: IC3_141203A				SeqNo: 3062426		Prep Date:		DF: 500	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	2807	500	10	3205	-3980	75-125	2821	0.503	20	SO
Sulfate	8109	500	10	9344	-12300	75-125	8246	1.67	20	SO

The following samples were analyzed in this batch:

14111202-01B	14111202-02B	14111202-03B
14111202-04B	14111202-05B	



ALS Environmental

3352 128th Avenue Holland, MI 49424
 PH: (616) 399-8070

Chain-of-Custody

WORKORDER #	1111 202
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PROJECT NAME	Clough 14-22 Monitoring Wells	SAMPLER	Mike Lobato	DATE	11/21/14	PAGE	1 of 1
PROJECT No.		SITE ID	Clough 14-22	TURNAROUND	Standard 5 Day	DISPOSAL	By Lab or Return to Client
COMPANY NAME	HRL Compliance Solutions, Inc.	EDD FORMAT		ALKALINITY (Bicarbonate Carbonate Total)			
SEND REPORT TO	Mark Mumby	PURCHASE ORDER		ANIONS BY ION CHROMAT.			
ADDRESS	2385 F 1/2 Road	BILL TO COMPANY	WPX Energy	METALS DISSOLVED			
CITY / STATE / ZIP	Grand Junction, CO 81505	INVOICE ATTN TO	Karolina Blaney	NITROGEN, NITRATE			
PHONE	970-243-3271	ADDRESS	1058 Co. Rd. 215	NITROGEN, NITRITE			
FAX	970-243-3280	CITY / STATE / ZIP	Parachute, CO 81635	PH			
E-MAIL	mmumby@hrlcomp.com; mlobato@hrlcomp.com	PHONE	970-683-2295	TDS			
		FAX		BIEX			
		E-MAIL	Karolina.blaney@wpxenergy.com				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	ALKALINITY (Bicarbonate Carbonate Total)	ANIONS BY ION CHROMAT.	METALS DISSOLVED	NITROGEN, NITRATE	NITROGEN, NITRITE	PH	TDS	BIEX
1	MW1	W	11/21/14	10:50	5	1,3,8		X	X	X	X	X	X	X	X
2	MW2	W	11/21/14	11:08	5	1,3,8		↓	↓	↓	↓	↓	↓	↓	↓
3	MW3	W	11/21/14	11:20	5	1,3,8		↓	↓	↓	↓	↓	↓	↓	↓
4	MW4	W	11/21/14	11:35	5	1,3,8		↓	↓	↓	↓	↓	↓	↓	↓
5	MW5	W	11/21/14	11:48	5	1,3,8		↓	↓	↓	↓	↓	↓	↓	↓
	FRIP BLANK	L	11/21/14		1	1,8									

*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: Metals: Ca, Fe, Mg, Mn, Na, K, Se
 Anions: Cl, SO4
 Refer to WO# 1409994
 3.4°C

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

*Reservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Mike Lobato</i>	Mike Lobato	11/21/14	1319
RECEIVED BY	<i>[Signature]</i>	<i>[Signature]</i>	11/21/14	1330
RELINQUISHED BY	<i>[Signature]</i>	<i>[Signature]</i>	11-21-14	1400
RECEIVED BY	<i>[Signature]</i>	KETRA WIERENNA	11/22/14	1000
RELINQUISHED BY	<i>[Signature]</i>			
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **22-Nov-14 10:00**

Work Order: **14111202**

Received by: **KRW**

Checklist completed by Keith Warenga 22-Nov-14
eSignature Date

Reviewed by: Joseph Ribar 24-Nov-14
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"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.4 C"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="11/22/2014 12:01:47 PM"/>		
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:	<input type="text"/>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (616) 399-6070
Nick Martinez
ALS Environmental
127 E. 1st Street
PARACHUTE, CO 81635

Origin ID: RLA



Ship Date: 21NOV14
ActWgt: 58.0 LB
CAD: 22648407NET3550
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 112114-1
Invoice # Parachute
PO #
Dept #

SHIP TO: (616) 399-6070
sample receiving
ALS Laboratory Group
3352 128TH AVE
HOLLAND, MI 49424

BILL SENDER

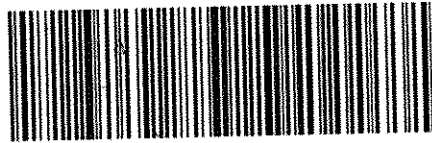
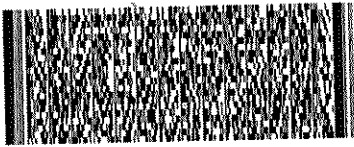
1 of 2
SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7719 5652 1870

MASTER

49424
MI-US
GRR

XO HLMA



522G16H08A03

After printing this label:

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AL... He Custody Seal
 DATE 11-21-14 Time 1:30
 Name [Signature]