



14-Nov-2019

Kris Rowe
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Ursa 609 - McLin B (60-72 Month Post Op)**

Work Order: **19110576**

Dear Kris,

ALS Environmental received 1 sample on 07-Nov-2019 09:30 AM for the analyses presented in the following report.

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

Sample results are compliant with industry accepted practices and Quality Control 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 20.

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

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

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

Environmental 

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Client: HRL Compliance Solutions, Inc
Project: Ursa 609 - McLin B (60-72 Month Post Op)
Work Order: 19110576

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>
19110576-01	Fred Frei	Groundwater		11/6/2019 12:00	11/7/2019 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Ursa 609 - McLin B (60-72 Month Post Op)
Work Order: 19110576

Case Narrative

Batch R275004, Method PH_9040_W, Sample LCS-R275004: Sample was processed outside of holding time pH, as the analysis is a field test and holding time is defined as 15 minutes.

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

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

<u>Units Reported</u>	<u>Description</u>
°C	Degrees Celcius
µmhos/cm	Micromhos per Centimeter
mg/L	Milligrams per Liter
s.u.	Standard Units

ALS Group, USA

Date: 14-Nov-19

Client: HRL Compliance Solutions, Inc
Project: Ursa 609 - McLin B (60-72 Month Post Op)
Sample ID: Fred Frei
Collection Date: 11/6/2019 12:00 PM

Work Order: 19110576
Lab ID: 19110576-01
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015C		Prep: SW3511 11/11/19 09:32	Analyst: BCM
DRO (C10-C28)	ND		0.50	mg/L	1	11/12/2019 05:08 AM
Surr: 4-Terphenyl-d14	70.3		35-161	%REC	1	11/12/2019 05:08 AM
GASES IN WATER						
			RSK-175			Analyst: BCM
Ethane	ND		0.0050	mg/L	1	11/11/2019 02:56 PM
Methane	ND		0.0050	mg/L	1	11/11/2019 02:56 PM
Propane	ND		0.010	mg/L	1	11/11/2019 02:56 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D			Analyst: BCM
GRO (C6-C10)	ND		0.20	mg/L	1	11/12/2019 05:47 AM
Surr: Toluene-d8	91.9		76-120	%REC	1	11/12/2019 05:47 AM
METALS BY ICP-MS						
			SW6020A		Prep: SW3015A 11/12/19 16:16	Analyst: STP
Calcium	110		0.50	mg/L	1	11/12/2019 07:26 PM
Magnesium	34		0.20	mg/L	1	11/12/2019 07:26 PM
Potassium	3.2		0.20	mg/L	1	11/12/2019 07:26 PM
Sodium	82		0.20	mg/L	1	11/12/2019 07:26 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260C			Analyst: JNS
Benzene	ND		0.0010	mg/L	1	11/14/2019 01:10 AM
Ethylbenzene	ND		0.0010	mg/L	1	11/14/2019 01:10 AM
m,p-Xylene	ND		0.0020	mg/L	1	11/14/2019 01:10 AM
o-Xylene	ND		0.0010	mg/L	1	11/14/2019 01:10 AM
Toluene	ND		0.0010	mg/L	1	11/14/2019 01:10 AM
Xylenes, Total	ND		0.0030	mg/L	1	11/14/2019 01:10 AM
Surr: 1,2-Dichloroethane-d4	108		75-120	%REC	1	11/14/2019 01:10 AM
Surr: 4-Bromofluorobenzene	97.2		80-110	%REC	1	11/14/2019 01:10 AM
Surr: Dibromofluoromethane	103		85-115	%REC	1	11/14/2019 01:10 AM
Surr: Toluene-d8	98.4		85-110	%REC	1	11/14/2019 01:10 AM
ALKALINITY						
			A2320 B-11			Analyst: QTN
Alkalinity, Bicarbonate (as CaCO3)	430		10	mg/L	1	11/11/2019 11:27 AM
Alkalinity, Carbonate (as CaCO3)	ND		10	mg/L	1	11/11/2019 11:27 AM
ANIONS BY ION CHROMATOGRAPHY						
			SW9056A			Analyst: JDR
Bromide	ND		0.20	mg/L	1	11/11/2019 10:32 PM
Chloride	45		5.0	mg/L	5	11/11/2019 10:48 PM
Fluoride	0.29		0.10	mg/L	1	11/11/2019 10:32 PM
Sulfate	64		5.0	mg/L	5	11/11/2019 10:48 PM
PH (LABORATORY)						
			SW9040C			Analyst: QTN
pH (laboratory)	7.27	H	0.100	s.u.	1	11/11/2019 12:32 PM

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

ALS Group, USA**Date:** 14-Nov-19

Client: HRL Compliance Solutions, Inc
Project: Ursa 609 - McLin B (60-72 Month Post Op)
Sample ID: Fred Frei
Collection Date: 11/6/2019 12:00 PM

Work Order: 19110576
Lab ID: 19110576-01
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Temperature	19.4	H	0.100	°C	1	11/11/2019 12:32 PM
SPECIFIC CONDUCTANCE @ 25°C			A2510 B-11			Analyst: QTN
Specific Conductance	960		5.0	µmhos/cm	1	11/8/2019 09:27 AM
TOTAL DISSOLVED SOLIDS			A2540 C-11		Prep: FILTER 11/8/19 15:15	Analyst: ERW
Total Dissolved Solids	670		75	mg/L	1	11/11/2019 11:49 AM

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

Client: HRL Compliance Solutions, Inc

Work Order: 19110576

Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **145331**

Instrument ID **GC8**

Method: **SW8015C**

MBLK		Sample ID: DBLKW1-145331-145331				Units: mg/L		Analysis Date: 11/11/2019 10:49 P		
Client ID:		Run ID: GC8_191111D				SeqNo: 6052112		Prep Date: 11/11/2019		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

0.03

0

0.0417

0

71.9

35-161

0

LCS		Sample ID: DLC SW1-145331-145331				Units: mg/L		Analysis Date: 11/11/2019 11:47 P		
Client ID:		Run ID: GC8_191111D				SeqNo: 6052114		Prep Date: 11/11/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)

4.119

0.10

4.17

0

98.8

60-150

0

Surr: 4-Terphenyl-d14

0.02917

0

0.0417

0

69.9

35-161

0

LCSD		Sample ID: DLCSDW1-45331-145331				Units: mg/L		Analysis Date: 11/12/2019 12:17 P		
Client ID:		Run ID: GC8_191111D				SeqNo: 6052125		Prep Date: 11/11/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)

4.302

0.10

4.17

0

103

60-150

4.119

4.34

30

Surr: 4-Terphenyl-d14

0.032

0

0.0417

0

76.7

35-161

0.02917

9.26

30

The following samples were analyzed in this batch:

19110576-01C

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **R275019** Instrument ID **GC10** Method: **RSK-175**

MBLK		Sample ID: BLANK-R275019				Units: µg/L		Analysis Date: 11/11/2019 02:39 P		
Client ID:		Run ID: GC10_191111A				SeqNo: 6046838		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	5.0								
Methane	ND	5.0								
Propane	ND	10								

LCS		Sample ID: LCS-R275019				Units: µg/L		Analysis Date: 11/11/2019 02:36 P		
Client ID:		Run ID: GC10_191111A				SeqNo: 6046830		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	31.49	5.0	36.1	0	87.2	75-125	0			
Methane	15.01	5.0	19.2	0	78.2	75-125	0			
Propane	45.06	10	52.8	0	85.3	75-125	0			

LCS		Sample ID: IDC1-R275019				Units: µg/L		Analysis Date: 11/11/2019 03:22 P		
Client ID:		Run ID: GC10_191111A				SeqNo: 6046856		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	33.86	5.0	36.1	0	93.8	75-125	0			
Methane	17.75	5.0	19.2	0	92.4	75-125	0			
Propane	47.83	10	52.8	0	90.6	75-125	0			

LCS		Sample ID: IDC2-R275019				Units: µg/L		Analysis Date: 11/11/2019 03:24 P		
Client ID:		Run ID: GC10_191111A				SeqNo: 6046857		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	34.98	5.0	36.1	0	96.9	75-125	0			
Methane	19.61	5.0	19.2	0	102	75-125	0			
Propane	48.79	10	52.8	0	92.4	75-125	0			

LCS		Sample ID: IDC3-R275019				Units: µg/L		Analysis Date: 11/11/2019 03:26 P		
Client ID:		Run ID: GC10_191111A				SeqNo: 6046858		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	34.41	5.0	36.1	0	95.3	75-125	0			
Methane	18.91	5.0	19.2	0	98.5	75-125	0			
Propane	47.58	10	52.8	0	90.1	75-125	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **R275019** Instrument ID **GC10** Method: **RSK-175**

LCS		Sample ID: IDC4-R275019				Units: µg/L		Analysis Date: 11/11/2019 03:28 P		
Client ID:		Run ID: GC10_191111A				SeqNo: 6046859		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	34.53	5.0	36.1	0	95.7	75-125	0			
Methane	19.17	5.0	19.2	0	99.8	75-125	0			
Propane	48.8	10	52.8	0	92.4	75-125	0			

MS		Sample ID: 19110570-01E MS				Units: µg/L		Analysis Date: 11/11/2019 03:17 P		
Client ID:		Run ID: GC10_191111A				SeqNo: 6046854		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	7.86	5.0	36.1	1.21	18.4	75-125	0			S
Methane	4.35	5.0	19.2	0	22.7	75-125	0			JS
Propane	11.25	10	52.8	0	21.3	75-125	0			S

MSD		Sample ID: 19110570-01E MSD				Units: µg/L		Analysis Date: 11/11/2019 03:19 P		
Client ID:		Run ID: GC10_191111A				SeqNo: 6046855		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	30.02	5.0	36.1	1.21	79.8	75-125	7.86	117	20	R
Methane	12.7	5.0	19.2	0	66.1	75-125	4.35	97.9	20	SR
Propane	40.06	10	52.8	0	75.9	75-125	11.25	112	20	R

The following samples were analyzed in this batch:

19110576-01E

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **R275251** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-191111-R275251				Units: µg/L		Analysis Date: 11/11/2019 08:52 P		
Client ID:		Run ID: GC9_191111A				SeqNo: 6053794		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>89.56</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>89.6</i>	<i>76-120</i>	<i>0</i>			

LCS		Sample ID: LCS-191111-R275251				Units: µg/L		Analysis Date: 11/11/2019 07:53 P		
Client ID:		Run ID: GC9_191111A				SeqNo: 6053793		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)	9272	200	10000	0	92.7	76-126	0			
<i>Surr: Toluene-d8</i>	<i>119.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>119</i>	<i>76-120</i>	<i>0</i>			

MS		Sample ID: 19110419-03A MS				Units: µg/L		Analysis Date: 11/12/2019 12:46 P		
Client ID:		Run ID: GC9_191111A				SeqNo: 6053811		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)	11060	200	10000	0	111	76-126	0			
<i>Surr: Toluene-d8</i>	<i>116.6</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>117</i>	<i>76-120</i>	<i>0</i>			

DUP		Sample ID: 19110419-04A DUP				Units: µg/L		Analysis Date: 11/11/2019 11:18 P		
Client ID:		Run ID: GC9_191111A				SeqNo: 6053799		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	0	0	0		0	0	30	
<i>Surr: Toluene-d8</i>	<i>93.71</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>93.7</i>	<i>76-120</i>	<i>100.5</i>	<i>7.03</i>	<i>30</i>	

The following samples were analyzed in this batch:

19110576-01D

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **145493** Instrument ID **ICPMS4** Method: **SW6020A**

MBLK		Sample ID: MBLK-145493-145493				Units: mg/L		Analysis Date: 11/12/2019 06:43 P		
Client ID:		Run ID: ICPMS4_191112A				SeqNo: 6051007		Prep Date: 11/12/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	ND	0.50								
Magnesium	ND	0.20								
Potassium	ND	0.20								
Sodium	ND	0.20								

LCS		Sample ID: LCS-145493-145493				Units: mg/L		Analysis Date: 11/12/2019 06:44 P		
Client ID:		Run ID: ICPMS4_191112A				SeqNo: 6051008		Prep Date: 11/12/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	10.19	0.50	10	0	102	80-120	0			
Magnesium	10.07	0.20	10	0	101	80-120	0			
Potassium	9.894	0.20	10	0	98.9	80-120	0			
Sodium	9.934	0.20	10	0	99.3	80-120	0			

MS		Sample ID: 19110483-10AMS				Units: mg/L		Analysis Date: 11/12/2019 06:48 P		
Client ID:		Run ID: ICPMS4_191112A				SeqNo: 6051010		Prep Date: 11/12/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	132.5	0.50	10	127.5	50.6	75-125	0			SO
Magnesium	55.68	0.20	10	48.23	74.5	75-125	0			SO
Potassium	11.4	0.20	10	1.852	95.5	75-125	0			
Sodium	17.97	0.20	10	8.573	94	75-125	0			

MSD		Sample ID: 19110483-10AMSD				Units: mg/L		Analysis Date: 11/12/2019 06:49 P		
Client ID:		Run ID: ICPMS4_191112A				SeqNo: 6051011		Prep Date: 11/12/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	132.8	0.50	10	127.5	53.3	75-125	132.5	0.209	20	SO
Magnesium	56.51	0.20	10	48.23	82.8	75-125	55.68	1.48	20	O
Potassium	11.72	0.20	10	1.852	98.6	75-125	11.4	2.71	20	
Sodium	18.28	0.20	10	8.573	97.1	75-125	17.97	1.73	20	

The following samples were analyzed in this batch:

19110576-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **R275255** Instrument ID **VMS9** Method: **SW8260C**

MBLK				Sample ID: VBLKW2-191113-R275255				Units: µg/L			Analysis Date: 11/13/2019 09:30 P		
Client ID:			Run ID: VMS9_191113B				SeqNo: 6054946			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	21.19	0	20	0	106	75-120		0					
Surr: 4-Bromofluorobenzene	18.98	0	20	0	94.9	80-110		0					
Surr: Dibromofluoromethane	20.79	0	20	0	104	85-115		0					
Surr: Toluene-d8	19.66	0	20	0	98.3	85-110		0					

LCS					Sample ID: VLCSW2-191113-R275255			Units: µg/L		Analysis Date: 11/13/2019 08:59 P	
Client ID:			Run ID: VMS9_191113B			SeqNo: 6054945		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	20.08	1.0	20	0	100	70-130	0				
Ethylbenzene	21.01	1.0	20	0	105	76-123	0				
m,p-Xylene	38.85	2.0	40	0	97.1	75-130	0				
o-Xylene	19.67	1.0	20	0	98.4	76-127	0				
Toluene	20.05	1.0	20	0	100	76-125	0				
Xylenes, Total	58.52	3.0	60	0	97.5	76-127	0				
Surr: 1,2-Dichloroethane-d4	21.34	0	20	0	107	75-120	0				
Surr: 4-Bromofluorobenzene	20.34	0	20	0	102	80-110	0				
Surr: Dibromofluoromethane	21.56	0	20	0	108	85-115	0				
Surr: Toluene-d8	20.05	0	20	0	100	85-110	0				

MS					Sample ID: 19110419-02A MS		Units: µg/L		Analysis Date: 11/14/2019 03:16 A	
Client ID:			Run ID: VMS9_191113B			SeqNo: 6054987		Prep Date:		DF: 25
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	526	25	500	27.75	99.6	70-130		0		
Ethylbenzene	546.5	25	500	19.25	105	76-123		0		
m,p-Xylene	1279	50	1000	281.8	99.7	75-130		0		
o-Xylene	504	25	500	17.75	97.2	76-127		0		
Toluene	509.2	25	500	0	102	76-125		0		
Xylenes, Total	1783	75	1500	299.5	98.9	76-127		0		
Surr: 1,2-Dichloroethane-d4	535.5	0	500	0	107	75-120		0		
Surr: 4-Bromofluorobenzene	485.5	0	500	0	97.1	80-110		0		
Surr: Dibromofluoromethane	514	0	500	0	103	85-115		0		
Surr: Toluene-d8	488.8	0	500	0	97.8	85-110		0		

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **R275255** Instrument ID **VMS9** Method: **SW8260C**

The following samples were analyzed in this batch:

19110576-01D

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **145339** Instrument ID **TDS** Method: **A2540 C-11**

MBLK		Sample ID: MBLK-145339-145339				Units: mg/L		Analysis Date: 11/11/2019 11:49 A		
Client ID:		Run ID: TDS_191111A				SeqNo: 6045992		Prep Date: 11/8/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids ND 30

DUP		Sample ID: 19110483-16E DUP				Units: mg/L		Analysis Date: 11/11/2019 11:49 A		
Client ID:		Run ID: TDS_191111A				SeqNo: 6045971		Prep Date: 11/8/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 810 50 0 0 0 0-0 800 1.24 10

DUP		Sample ID: 19110570-01A DUP				Units: mg/L		Analysis Date: 11/11/2019 11:49 A		
Client ID:		Run ID: TDS_191111A				SeqNo: 6045981		Prep Date: 11/8/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 564 30 0 0 0 0-0 572 1.41 10

The following samples were analyzed in this batch:

19110576-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **R274808b** Instrument ID **WETCHEM** Method: **A2510 B-11**

MBLK		Sample ID: MB-R274808-R274808b				Units: µmhos/cm		Analysis Date: 11/8/2019 09:27 AM		
Client ID:		Run ID: WETCHEM_191108G				SeqNo: 6042187		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance ND 5.0

DUP		Sample ID: 19110329-01A DUP				Units: µmhos/cm		Analysis Date: 11/8/2019 09:27 AM		
Client ID:		Run ID: WETCHEM_191108G				SeqNo: 6041439		Prep Date:		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 5740 100 0 0.79 0 0-0 5700 0.699 5

DUP		Sample ID: 19110576-01A DUP				Units: µmhos/cm		Analysis Date: 11/8/2019 09:27 AM		
Client ID: Fred Frei		Run ID: WETCHEM_191108G				SeqNo: 6041448		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 948 5.0 0 0.79 0 0-0 960 1.26 5

LCS1		Sample ID: LCS1-R274808b				Units: µmhos/cm		Analysis Date: 11/8/2019 09:27 AM		
Client ID:		Run ID: WETCHEM_191108G				SeqNo: 6041431		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 15.11 5.0 14.9 0 101 92-110 0

LCS2		Sample ID: LCS2-R274808b				Units: µmhos/cm		Analysis Date: 11/8/2019 09:27 AM		
Client ID:		Run ID: WETCHEM_191108G				SeqNo: 6041449		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 608 5.0 592 0 103 87-112 0

The following samples were analyzed in this batch:

19110576-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **R274999** Instrument ID **Titration 1** Method: **A2320 B-11**

MBLK		Sample ID: MB-R274999-R274999				Units: mg/L		Analysis Date: 11/11/2019 11:27 A		
Client ID:		Run ID: TITRATOR 1_191111A				SeqNo: 6046322		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)	ND	10								
Alkalinity, Carbonate (as CaCO3)	ND	10								
Alkalinity, Hydroxide (as CaCO3)	ND	10								
Alkalinity, Phenolphthalein (as CaCO3)	ND	10								
Alkalinity, Total (as CaCO3)	ND	10								

LCS		Sample ID: LCS-R274999-R274999				Units: mg/L		Analysis Date: 11/11/2019 11:27 A		
Client ID:		Run ID: TITRATOR 1_191111A				SeqNo: 6046323		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)	871.9	10	925	0	94.3	88-110	0			
Alkalinity, Total (as CaCO3)	960.2	10	1000	0	96	89-103	0			

DUP		Sample ID: 19110483-10C DUP				Units: mg/L		Analysis Date: 11/11/2019 11:27 A		
Client ID:		Run ID: TITRATOR 1_191111A				SeqNo: 6046325		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)	470.9	10	0	0	0	0-0	467	0.842	10	
Alkalinity, Carbonate (as CaCO3)	ND	10	0	0	0	0-0	0	0	10	
Alkalinity, Hydroxide (as CaCO3)	ND	10	0	0	0	0-0	0	0	10	
Alkalinity, Phenolphthalein (as CaCO3)	ND	10	0	0	0	0-0	0	0	10	
Alkalinity, Total (as CaCO3)	470.9	10	0	0	0	0-0	467	0.842	10	

DUP		Sample ID: 19110527-04A DUP				Units: mg/L		Analysis Date: 11/11/2019 11:27 A		
Client ID:		Run ID: TITRATOR 1_191111A				SeqNo: 6046336		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)	164.2	10	0	0	0	0-0	163.5	0.391	10	
Alkalinity, Carbonate (as CaCO3)	ND	10	0	0	0	0-0	0	0	10	
Alkalinity, Hydroxide (as CaCO3)	ND	10	0	0	0	0-0	0	0	10	
Alkalinity, Phenolphthalein (as CaCO3)	ND	10	0	0	0	0-0	0	0	10	
Alkalinity, Total (as CaCO3)	164.2	10	0	0	0	0-0	163.5	0.391	10	

The following samples were analyzed in this batch:

19110576-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **R275004** Instrument ID **Titrator 1** Method: **A4500-H B-11**

LCS				Sample ID: LCS-R275004-R275004				Units: s.u.			Analysis Date: 11/11/2019 12:32 P			
Client ID:				Run ID: TITRATOR 1_191111C				SeqNo: 6046417			Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH (laboratory)		4.05	0.10	4	0	101	92-108	0						

LCS		Sample ID: LCS-R275004-R275004					Units: s.u.		Analysis Date: 11/11/2019 12:32 P		
Client ID:			Run ID: TITRATOR 1_191111C			SeqNo: 6046429		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH (laboratory)	4.05	0.10	4	0	101	92-108	0				

DUP				Sample ID: 19110283-02A DUP				Units: s.u.			Analysis Date: 11/11/2019 12:32 P			
Client ID:				Run ID: TITRATOR 1_191111C				SeqNo: 6046420			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH (laboratory)	8.26	0.10	0	0	0	0-0	8.19	0.851	5	H				
Temperature	20.38	0.10	0	0	0	0-0	20.51	0.636		H				

DUP		Sample ID: 19110570-01A DUP				Units: s.u.		Analysis Date: 11/11/2019 12:32 P		
Client ID:		Run ID: TITRATOR 1_191111C			SeqNo: 6046433		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	7.35	0.10	0	0	0	0-0	7.32	0.409	5	H
Temperature	19.64	0.10	0	0	0		19.38	1.33		H

The following samples were analyzed in this batch:

19110576-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 19110576
Project: Ursa 609 - McLin B (60-72 Month Post Op)

QC BATCH REPORT

Batch ID: **R275065** Instrument ID **IC3** Method: **SW9056A**

MBLK				Sample ID: CCB/MBLK-R275065				Units: mg/L			Analysis Date: 11/11/2019 04:36 P			
Client ID:				Run ID: IC3_191111B				SeqNo: 6048511			Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Bromide		ND	0.20											
Chloride		ND	1.0											
Fluoride		ND	0.10											
Sulfate		ND	1.0											

LCS				Sample ID: LCS-R275065				Units: mg/L		Analysis Date: 11/11/2019 04:52 P	
Client ID:			Run ID: IC3_191111B			SeqNo: 6048512		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Bromide	1.98	0.20	2	0	99	90-110	0				
Chloride	9.363	1.0	10	0	93.6	88-110	0				
Fluoride	1.913	0.10	2	0	95.6	82-116	0				
Sulfate	9.459	1.0	10	0	94.6	90-110	0				

MS				Sample ID: 19110576-01A MS				Units: mg/L		Analysis Date: 11/11/2019 11:36 P	
Client ID: Fred Frei			Run ID: IC3_191111B			SeqNo: 6048536		Prep Date:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Bromide	20.65	2.0	20	0	103	90-110	0				
Chloride	142.5	10	100	45.31	97.2	88-110	0				
Fluoride	21.95	1.0	20	0.2045	109	82-116	0				
Sulfate	160.4	10	100	64.15	96.3	90-110	0				

MSD				Sample ID: 19110576-01A MSD				Units: mg/L		Analysis Date: 11/11/2019 11:52 P	
Client ID: Fred Frei			Run ID: IC3_191111B			SeqNo: 6048537		Prep Date:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Bromide	20.71	2.0	20	0	104	90-110	20.65	0.314	20		
Chloride	142.6	10	100	45.31	97.3	88-110	142.5	0.0288	20		
Fluoride	22.01	1.0	20	0.2045	109	82-116	21.95	0.282	20		
Sulfate	161.2	10	100	64.15	97	90-110	160.4	0.45	20		

The following samples were analyzed in this batch:

19110576-01A

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



Form 2028

19110576

1 of 1







☒ By Lab or ☐ Return to Client

[illegible]

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

For metals or anions, please detail analytes below.

Comments: 60-72 Month Post Op - Supplemental COGCC 609 *If methane is >1.0 mg/L additional compositional testing required	Please see analyte list for sample constituents.				QC PACKAGE (check below)	
						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		Kris Rowe	11/6/2019	1000
RECEIVED BY			11-6-19	1600
RELINQUISHED BY			11-6-19	1830
RECEIVED BY		KEITH W. FRENCH	11/7/19	0930
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **07-Nov-19 09:30**

Work Order: **19110576**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

07-Nov-19
Date

Reviewed by: Chad Whelton
eSignature

07-Nov-19
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 type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.0/3.0 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/7/2019 4:04:57 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:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: