



13-Dec-2017

Bruce Smith  
Western Water & Land, Inc.  
743 Horizon Court  
Suite 330  
Grand Junction, CO 81506

Re: **RU 11-7 BWQ**

Work Order: **1712342**

Dear Bruce,

ALS Environmental received 1 sample on 06-Dec-2017 09:30 AM for the analyses presented in the following report.

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

Sample results are compliant with 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 7.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a white background.

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager

Certificate No: MN 998501

### Report of Laboratory Analysis

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

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Environmental The logo icon for ALS Environmental, a stylized blue triangle with a yellow flame-like shape inside.

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**Client:** Western Water & Land, Inc.  
**Project:** RU 11-7 BWQ  
**Work Order:** 1712342

**Work Order Sample Summary**

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<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>
1712342-01	Yellow Jacket Spg	Surface Wate		12/5/2017 13:15	12/6/2017 09:30	<input type="checkbox"/>

**Client:** Western Water & Land, Inc.  
**Project:** RU 11-7 BWQ  
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**QUALIFIERS,  
ACRONYMS, UNITS**

<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
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>
mg/L	Milligrams per Liter

# ALS Group, USA

Date: 13-Dec-17

**Client:** Western Water & Land, Inc.  
**Project:** RU 11-7 BWQ  
**Sample ID:** Yellow Jacket Spg  
**Collection Date:** 12/5/2017 01:15 PM

**Work Order:** 1712342  
**Lab ID:** 1712342-01  
**Matrix:** SURFACE WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>				Method: <b>SW8015C</b>		Prep: SW3511 / 12/7/17	Analyst: <b>KB</b>
DRO (C10-C28)		U	0.040	0.50	mg/L	1	12/7/2017 19:50
Surr: 4-Terphenyl-d14	79.1			35-161	%REC	1	12/7/2017 19:50

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

**Client:** Western Water & Land, Inc.  
**Work Order:** 1712342  
**Project:** RU 11-7 BWQ

**QC BATCH REPORT**

Batch ID: **111506** Instrument ID **GC8** Method: **SW8015C**

MBLK		Sample ID: <b>DBLKW1-111506-111506</b>				Units: <b>mg/L</b>		Analysis Date: <b>12/7/2017 06:23 PM</b>			
Client ID:		Run ID: <b>GC8_171207A</b>				SeqNo: <b>4800028</b>		Prep Date: <b>12/7/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	U	0.10									
<i>Surr: 4-Terphenyl-d14</i>	0.0325	0	0.0417	0	77.9	35-161	0				

LCS		Sample ID: <b>DLCSW1-111506-111506</b>				Units: <b>mg/L</b>		Analysis Date: <b>12/7/2017 06:52 PM</b>			
Client ID:		Run ID: <b>GC8_171207A</b>				SeqNo: <b>4800029</b>		Prep Date: <b>12/7/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	3.906	0.10	4.17	0	93.7	60-150	0				
<i>Surr: 4-Terphenyl-d14</i>	0.03583	0	0.0417	0	85.9	35-161	0				

MS		Sample ID: <b>1712342-01A MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>12/7/2017 08:19 PM</b>			
Client ID: <b>Yellow Jacket Spg</b>		Run ID: <b>GC8_171207A</b>				SeqNo: <b>4800032</b>		Prep Date: <b>12/7/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	3.982	0.10	4.17	0	95.5	60-150	0				
<i>Surr: 4-Terphenyl-d14</i>	0.02833	0	0.0417	0	67.9	35-161	0				

DUP		Sample ID: <b>1712344-01B DUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>12/7/2017 09:17 PM</b>			
Client ID:		Run ID: <b>GC8_171207A</b>				SeqNo: <b>4800034</b>		Prep Date: <b>12/7/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	U	0.10	0	0	0		0	0	30		
<i>Surr: 4-Terphenyl-d14</i>	0.02833	0	0.0417	0	67.9	44-159	0.02583	9.23	30		

The following samples were analyzed in this batch: 1712342-01A



# ALS Laboratory Group

3352 128th Ave, Holland, MI 49424  
PH. (616) 399-6070

## Chain-of-Custody

Form 202r8

WORKORDER # 1712342

PROJECT NAME	RD 11-7 BWQ	SAMPLER	Shelby	DATE	12-5-17	PAGE	1 of 1
FACILITY NAME		PROJECT NO.		TURNAROUND	Standard	DISPOSAL	By Lab or Return to Client
FACILITY ID (API)		EDD FORMAT					
COMPANY NAME	WWL	PURCHASE ORDER					
SEND REPORT TO	Bruce Smith	BILL TO COMPANY	TEP Rocky Mtn LLC				
ADDRESS	743 Horizon Ct, Ste 330	INVOICE ATTN TO	Mike Gardner				
CITY / STATE / ZIP	Grand Junction, CO 81506	ADDRESS	1058 CR 215				
PHONE	(970) 242-0170	CITY / STATE / ZIP	Parachute, CO 81635				
FAX		PHONE	(970) 263-2792				
E-MAIL	bsmith@westernwaterandland.com	FAX					
		E-MAIL	mgardner@terraep.com				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	NG1	BART	BTEX	GRO	DRO	Dissolved Metals, lab filtered	Anions, Alk, TDS, pH, SpC	Total Phosphorus	Dissolved gases - HCl preserved	Dissolved gases - unpreserved	
	Yellow Jacket Spg Trip blank	SW	12-5-17	1315	2	/	IV											

### Field Parameters

Yellow Jacket Spg	Temp (°C)	6.23	DO (%)	15.0	SpC (uS/cm)	633	Turb (NTUs)	0.91
	pH (s.u.)	7.57	DO (mg/L)	1.84	ORP (mv)	90.8	Disch (gpm)	
	Temp (°C)		DO (%)		SpC (uS/cm)		Turb (NTUs)	
	pH (s.u.)		DO (mg/L)		ORP (mv)		Disch (gpm)	

\*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)	
	<input type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input checked="" type="checkbox"/>	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		Shelley Goodwin	12-5-17	1438
RECEIVED BY		Mike Gardner	12-5-17	1438
RELINQUISHED BY		Nicole Fredericks	12-5-17	1530
RECEIVED BY		Nicole Fredericks	12-6-17	0930
RELINQUISHED BY				
RECEIVED BY				

Sp2/3.4

Sample Receipt Checklist

Client Name: **WESTERNW&L**

Date/Time Received: **06-Dec-17 09:30**

Work Order: **1712342**

Received by: **NCF**

Checklist completed by Niede Fredericks 06-Dec-17  
eSignature Date

Reviewed by: Chad Whilton 06-Dec-17  
eSignature Date

Matrices: Surface Water

Carrier name: FedEx

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Sample(s) received on ice? Yes  No

Temperature(s)/Thermometer(s): 3.4/3.4 SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 12/6/2017 3:13:44 PM

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

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Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: