



Wednesday, November 10, 2021

Max Trehus  
Great Western Operating Company, LLC  
4093 Specialty Place, Unit B  
Longmont, CO 80504

Re: ALS Workorder: 2110338  
Project Name: Kodak 34-44  
Project Number:

Dear Mr. Trehus:

Two water samples were received from Great Western Operating Company, LLC, on 10/14/2021. The samples were scheduled for the following analyses:

Dissolved Gasses

GC/MS Volatiles

Inorganics

Metals

Total Extractable Petroleum Hydrocarbons (Diesel)

Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental  
Katie M. OBrien  
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.



## 2110338

### **GC/MS Volatiles:**

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

### **Dissolved Gasses:**

The sample was prepared and analyzed according to method RSK-175 procedures and the current revision of SOP 449.

All acceptance criteria were met.

### **GRO:**

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10.

All acceptance criteria were met.

### **DRO:**

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

### **Metals:**

The samples were analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures. Analysis by Trace ICP followed method 200.7 and the current revision of SOP 834.

Sample 2110338-2 was to be analyzed for dissolved metals. The sample was filtered through a 0.45 micron filter and preserved with nitric acid to a pH less than two prior to analysis.

All acceptance criteria were met.

**Inorganics:**

The sample was analyzed following Standard Method and EMSL procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	SM2320B	1106
Bicarbonate	SM2320B	1106
Carbonate	SM2320B	1106
TDS	SM2540C	1101
Chloride	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

The sample was analyzed outside of hold time for the alkalinity, bicarbonate and carbonate analysis.

All remaining acceptance criteria were met.

# ALS -- Fort Collins

## Sample Number(s) Cross-Reference Table

---

**OrderNum:** 2110338

**Client Name:** Great Western Operating Company, LLC

**Client Project Name:** Kodak 34-44

**Client Project Number:**

**Client PO Number:**

---

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
34-44 A	2110338-1		WATER	14-Oct-21	12:25
34-44 B	2110338-2		WATER	14-Oct-21	12:25



# ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524  
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

2110338

## Chain-of-Custody

Form 2028

Max Trehus

PROJECT NAME	Kodak 34-44	SAMPLER		DATE	
PROJECT No.		SITE ID		TURNAROUND	
COMPANY NAME	WOC	EDD FORMAT			
SEND REPORT TO	Max Trehus	PURCHASE ORDER			
ADDRESS		BILL TO COMPANY			
CITY / STATE / ZIP		INVOICE ATTN TO			
PHONE		ADDRESS			
FAX		CITY / STATE / ZIP			
E-MAIL		PHONE			
		FAX			
		E-MAIL			
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles
1	34-44A	W	10/14	12:25	3
1	34-44A				3
1	34-44A				2
1	34-44A				2
1	34-44A				1
2	34-44B				1
1	34-44C				2

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

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)	RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
Facility ID: 289735 2.2°	LEVEL II (Standard QC)	RECEIVED BY	Max Trehus	Max Trehus	10/14	17:45
	LEVEL III (Std QC + forms)	RELINQUISHED BY	John Elly	John Elly	10/14/2	17:45
	LEVEL IV (Std QC + forms + raw data)	RECEIVED BY				
		RELINQUISHED BY				
		RECEIVED BY				

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



**ALS Environmental - Fort Collins**  
**CONDITION OF SAMPLE UPON RECEIPT FORM**

Client: GWOC Workorder No: 2110338  
 Project Manager: KMO Initials: CXT Date: 10/15/2021

				N/A	YES	NO
1. Are airbills / shipping documents present and/or removable?				X		
Tracking number:						
2. Are custody seals on shipping containers intact?				X		
3. Are custody seals on sample containers intact?				X		
4. Is there a COC (chain-of-custody) present?					X	
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)					X	
6. Are short-hold samples present?						X
7. Are all samples within holding times for the requested analyses?					X	
8. Were all sample containers received intact? (not broken or leaking)					X	
9. Is there sufficient sample for the requested analyses?					X	
10. Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i> )					X	
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)					X	
12. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)					X	
13. Were the samples shipped on ice?					X	
14. Were cooler temperatures measured at 0.1-6.0°C?				IR gun used*: #5	RAD ONLY	X
Cooler #: <u>1</u> Temperature (°C): <u>2.2</u> # of custody seals on cooler: <u>0</u> External µR/hr reading: <u>NA</u> Background µR/hr reading: <u>12</u> Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <u>NA</u> (If no, see Form 008.)						

\* Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

---



---



---



---



---



---

Were unpreserved bottles pH checked? NA

All client bottle ID's vs ALS lab ID's double-checked by CT

If applicable, was the client contacted? YES / NO NA Contact: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Project Manager Signature / Date: \_\_\_\_\_

10/18/21

## ALS -- Fort Collins

## SAMPLE SUMMARY REPORT

Client: Great Western Operating Company, LLC

Date: 10-Nov-21

Project: Kodak 34-44

Work Order: 2110338

Sample ID: 34-44 A

Lab ID: 2110338-1

Legal Location:

Matrix: WATER

Collection Date: 10/14/2021 12:25

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Alkalinity as Calcium Carbonate</b>		<b>SM2320B</b>			Prep Date: 11/9/2021	PrepBy: JPE
BICARBONATE AS CaCO3	340		20	MG/L	1	11/9/2021
CARBONATE AS CaCO3	360		20	MG/L	1	11/9/2021
TOTAL ALKALINITY AS CaCO3	700		20	MG/L	1	11/9/2021
<b>Diesel Range Organics</b>		<b>SW8015M</b>			Prep Date: 10/20/2021	PrepBy: JRS
Diesel Range Organics	13		1	MG/L	1	10/22/2021 03:54
Surr: O-TERPHENYL	105		69-120	%REC	1	10/22/2021 03:54
<b>Dissolved Gasses</b>		<b>RSK175</b>			Prep Date: 10/21/2021	PrepBy: JRS
METHANE	16000		1	UG/L	1	10/21/2021 16:49
ETHANE	1000		2	UG/L	1	10/21/2021 16:49
PROPANE	1300		1	UG/L	1	10/21/2021 16:49
<b>Gasoline Range Organics</b>		<b>SW8015</b>			Prep Date: 10/22/2021	PrepBy: JRS
GASOLINE RANGE ORGANICS	1.9		0.1	MG/L	1	10/23/2021 08:05
Surr: 2,3,4-TRIFLUOROTOLUENE	98		80-120	%REC	1	10/23/2021 08:05
<b>GC/MS Volatiles</b>		<b>SW8260_25</b>			Prep Date: 10/19/2021	PrepBy: DJL
BENZENE	410		20	UG/L	20	10/19/2021 21:46
TOLUENE	11		1	UG/L	1	10/19/2021 22:08
ETHYLBENZENE	73		20	UG/L	20	10/19/2021 21:46
M+P-XYLENE	230		20	UG/L	20	10/19/2021 21:46
O-XYLENE	6.5		1	UG/L	1	10/19/2021 22:08
TOTAL XYLENES	230		1	UG/L	1	10/19/2021 21:46
Surr: 4-BROMOFLUOROBENZENE	99		80-120	%REC	1	10/19/2021 22:08
Surr: 4-BROMOFLUOROBENZENE	102		80-120	%REC	20	10/19/2021 21:46
Surr: DIBROMOFLUOROMETHANE	100		80-120	%REC	20	10/19/2021 21:46
Surr: DIBROMOFLUOROMETHANE	99		80-120	%REC	1	10/19/2021 22:08
Surr: TOLUENE-D8	100		80-120	%REC	20	10/19/2021 21:46
Surr: TOLUENE-D8	99		80-120	%REC	1	10/19/2021 22:08
<b>Ion Chromatography</b>		<b>EPA300.0</b>			Prep Date: 10/26/2021	PrepBy: AOW
CHLORIDE	170		10	MG/L	50	10/26/2021 13:35
SULFATE	ND		50	MG/L	50	10/26/2021 13:35
<b>Total Recoverable Metals by 200.7</b>		<b>EPA200.7</b>			Prep Date: 10/21/2021	PrepBy: WJS
CALCIUM	6.6		1	MG/L	1	10/22/2021 13:08
POTASSIUM	7.2		1	MG/L	1	10/22/2021 13:08
MAGNESIUM	ND		1	MG/L	1	10/22/2021 13:08
SODIUM	440		10	MG/L	10	10/22/2021 12:54
<b>Total Dissolved Solids</b>		<b>SM2540C</b>			Prep Date: 10/21/2021	PrepBy: BMK
TOTAL DISSOLVED SOLIDS	1500		40	MG/L	1	10/25/2021



Client: Great Western Operating Company, LLC

Date: 10-Nov-21

Project: Kodak 34-44

Work Order: 2110338

Sample ID: 34-44 B

Lab ID: 2110338-2

Legal Location:

Matrix: WATER

Collection Date: 10/14/2021 12:25

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
Dissolved Metals by 200.7			EPA200.7		Prep Date: 10/21/2021	PrepBy: WJS
CALCIUM	2.2		1	MG/L	1	10/22/2021 13:09
POTASSIUM	7.3		1	MG/L	1	10/22/2021 13:09
MAGNESIUM	ND		1	MG/L	1	10/22/2021 13:09
SODIUM	440		10	MG/L	10	10/22/2021 12:55

Client: Great Western Operating Company, LLC

Date: 10-Nov-21

Project: Kodak 34-44

Work Order: 2110338

Sample ID: 34-44 B

Lab ID: 2110338-2

Legal Location:

Matrix: WATER

Collection Date: 10/14/2021 12:25

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
----------	--------	------	--------------	-------	-----------------	---------------

**Explanation of Qualifiers****Radiochemistry:**

- "Report Limit" is the MDC

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

\* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

**Inorganics:**

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

\* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

**Organics:**

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

\* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

## ALS -- Fort Collins

Date: 11/10/2021 12:4

Client: Great Western Operating Company, LLC

Work Order: 2110338

Project: Kodak 34-44

## QC BATCH REPORT

Batch ID: HC211020-81-1 Instrument ID FUELS-1 Method: SW8015M

LCS	Sample ID: <b>HC211020-81</b>				Units: <b>MG/L</b>		Analysis Date: <b>10/21/2021 23:20</b>				
Client ID:		Run ID: <b>HC211021-81A</b>				Prep Date: <b>10/20/2021</b>			DF: <b>1</b>		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	7.13	1.07	8.33		86	53-120				20	
Surr: O-TERPHENYL	1.77		1.67		106	69-120					

LCSD	Sample ID: HC211020-81				Units: MG/L		Analysis Date: 10/21/2021 23:42				
Client ID:	Run ID: HC211021-81A				Prep Date: 10/20/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	7.06	1.07	8.33		85	53-120		7.13	1	20	
Surr: O-TERPHENYL	1.72		1.67		103	69-120			3		

MB	Sample ID: HC211020-81	Units: MG/L	Analysis Date: 10/21/2021 22:59
Client ID:	Run ID: HC211021-81A	Prep Date: 10/20/2021	DF: 1
Analyte	Result	ReportLimit	Qual
Diesel Range Organics	ND	1.1	
Surr: O-TERPHENYL	1.75	105	69-120

The following samples were analyzed in this batch:

2110338-1

**Client:** Great Western Operating Company, LLC  
**Work Order:** 2110338  
**Project:** Kodak 34-44

## QC BATCH REPORT

Batch ID: **HC211021-91-1** Instrument ID **MEE-1** Method: **RSK175**

LCS	Sample ID: HC211021-91				Units: UG/L		Analysis Date: 10/21/2021 14:24				
Client ID:	Run ID: HC211021-91A				Prep Date: 10/21/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	155	1	142		109	76-125				25	
ETHANE	294	2	267		110	70-120				25	
PROPANE	436	1	391		111	72-120				25	

LCSD	Sample ID: HC211021-91				Units: UG/L		Analysis Date: 10/21/2021 15:21				
Client ID:	Run ID: HC211021-91A				Prep Date: 10/21/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	163	1	142		114	76-125		155	5	25	
ETHANE	306	2	267		115	70-120		294	4	25	
PROPANE	454	1	391		116	72-120		436	4	25	

MB		Sample ID: HC211021-91			Units: UG/L		Analysis Date: 10/21/2021 14:52		
Client ID:		Run ID: HC211021-91A			Prep Date: 10/21/2021			DF: 1	
Analyte		Result	ReportLimit		Qual				
METHANE		ND	1						
ETHANE		ND	2						
PROPANE		ND	1						

The following samples were analyzed in this batch:

2110338-1

**Client:** Great Western Operating Company, LLC  
**Work Order:** 2110338  
**Project:** Kodak 34-44

## QC BATCH REPORT

Batch ID: **HC211022-62-1** Instrument ID **FUELS-1** Method: **SW8015**

LCS		Sample ID: <b>HC211022-62</b>			Units: <b>MG/L</b>		Analysis Date: <b>10/23/2021 02:24</b>				
Client ID:		Run ID: <b>HC211022-61A</b>			Prep Date: <b>10/22/2021</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.487	0.1	0.5		97	80-120				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0963		0.1		96	80-120					

LCSD	Sample ID: HC211022-62				Units: MG/L		Analysis Date: 10/23/2021 06:34				
Client ID:	Run ID: HC211022-61A				Prep Date: 10/22/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.481	0.1	0.5		96	80-120		0.487	1	20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0963		0.1		96	80-120			0		

MB		Sample ID: HC211022-62		Units: MG/L		Analysis Date: 10/22/2021 17:42	
Client ID:		Run ID: HC211022-61A		Prep Date: 10/22/2021		DF: 1	
Analyte		Result	ReportLimit	Qual			
GASOLINE RANGE ORGANICS		ND	0.1				
Surr: 2,3,4-TRIFLUOROTOLUENE		0.0972		97	80-120		

The following samples were analyzed in this batch:

2110338-1

**Client:** Great Western Operating Company, LLC  
**Work Order:** 2110338  
**Project:** Kodak 34-44

## QC BATCH REPORT

Batch ID: **IP211021-6-1** Instrument ID **ICPTTrace2** Method: **EPA200.7**

LCS	Sample ID: IP211021-6				Units: MG/L		Analysis Date: 10/22/2021 12:43				
Client ID:		Run ID: IT211022-1A5				Prep Date: 10/21/2021			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	39.6	1	40		99	85-115				20	
MAGNESIUM	40.9	1	40		102	85-115				20	
POTASSIUM	41.7	1	40		104	85-115				20	
SODIUM	41.4	1	40		104	85-115				20	

LCSD	Sample ID: IP211021-6			Units: MG/L			Analysis Date: 10/22/2021 12:44				
Client ID:		Run ID: IT211022-1A5			Prep Date: 10/21/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	39.5	1	40		99	85-115		39.6	0	20	
MAGNESIUM	40.7	1	40		102	85-115		40.9	0	20	
POTASSIUM	41.5	1	40		104	85-115		41.7	1	20	
SODIUM	41.2	1	40		103	85-115		41.4	0	20	

<b>MB</b>		Sample ID: <b>FP211019-6</b>		Units: <b>MG/L</b>		Analysis Date: <b>10/22/2021 12:41</b>	
Client ID:		Run ID: <b>IT211022-1A5</b>		Prep Date: <b>10/21/2021</b>		DF: <b>1</b>	
Analyte	Result	ReportLimit					Qual
CALCIUM	ND	1					
MAGNESIUM	ND	1					
POTASSIUM	ND	1					
SODIUM	ND	1					

The following samples were analyzed in this batch:

2110338-1 2110338-2

Client: Great Western Operating Company, LLC  
 Work Order: 2110338  
 Project: Kodak 34-44

## QC BATCH REPORT

Batch ID: VL211019-3-4 Instrument ID: HPV1 Method: SW8260\_25

LCS		Sample ID: VL211019-3			Units: %REC		Analysis Date: 10/19/2021 12:57				
Client ID:		Run ID: VL211019-3a				Prep Date: 10/19/2021			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.7		25		99	80-120					
Surr: DIBROMOFLUOROMETHANE	25.1		25		100	80-120					
Surr: TOLUENE-D8	24.5		25		98	80-120					
BENZENE	10.3	1	10		103	80-120				20	
TOLUENE	10	1	10		100	80-120				20	
ETHYLBENZENE	10	1	10		100	80-120				20	
M+P-XYLENE	19.9	1	20		99	80-120				20	
O-XYLENE	10	1	10		100	80-120				20	

LCSD		Sample ID: VL211019-3			Units: %REC		Analysis Date: 10/19/2021 13:19				
Client ID:		Run ID: VL211019-3a			Prep Date: 10/19/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.5		25		102	80-120			3		
Surr: DIBROMOFLUOROMETHANE	24.7		25		99	80-120			1		
Surr: TOLUENE-D8	25		25		100	80-120			2		
BENZENE	9.94	1	10		99	80-120		10.3	4	20	
TOLUENE	9.84	1	10		98	80-120		10	2	20	
ETHYLBENZENE	9.88	1	10		99	80-120		10	1	20	
M+P-XYLENE	20	1	20		100	80-120		19.9	1	20	
O-XYLENE	9.89	1	10		99	80-120		10	1	20	

MB		Sample ID: VL211019-3		Units: %REC		Analysis Date: 10/19/2021 14:03	
Client ID:		Run ID: VL211019-3a		Prep Date: 10/19/2021		DF: 1	
Analyte	Result	ReportLimit					Qual
Surr: 4-BROMOFLUOROBENZENE	25.1				100	80-120	
Surr: DIBROMOFLUOROMETHANE	25				100	80-120	
Surr: TOLUENE-D8	24.7				99	80-120	
BENZENE	ND	1					
TOLUENE	ND	1					
ETHYLBENZENE	ND	1					
M+P-XYLENE	ND	1					
O-XYLENE	ND	1					
TOTAL XYLENES	ND	1					

The following samples were analyzed in this batch:

2110338-1

**Client:** Great Western Operating Company, LLC  
**Work Order:** 2110338  
**Project:** Kodak 34-44

## QC BATCH REPORT

Batch ID: **AK211109-1-2** Instrument ID **NONE** Method: **SM2320B**

<b>LCS</b>		Sample ID: <b>AK211109-1</b>			Units: <b>MG/L</b>			Analysis Date: <b>11/9/2021</b>			
Client ID:		Run ID: <b>AK211109-1A1</b>			Prep Date: <b>11/9/2021</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	100	5	100		100	85-115				15	

<b>MB</b>		Sample ID: <b>AK211109-1</b>			Units: <b>MG/L</b>			Analysis Date: <b>11/9/2021</b>			
Client ID:		Run ID: <b>AK211109-1A1</b>			Prep Date: <b>11/9/2021</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit									Qual
BICARBONATE AS CaCO3	ND	5									
CARBONATE AS CaCO3	ND	5									
TOTAL ALKALINITY AS CaCO3	ND	5									

The following samples were analyzed in this batch:

2110338-1



**Client:** Great Western Operating Company, LLC  
**Work Order:** 2110338  
**Project:** Kodak 34-44

## QC BATCH REPORT

Batch ID: **IC211026-2-1** Instrument ID **IC3** Method: **EPA300.0**

LCS	Sample ID: IC211026-2			Units: MG/L			Analysis Date: 10/26/2021 12:46				
Client ID:		Run ID: IC211026-1A1			Prep Date: 10/26/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	10.2	0.2	10		102	90-110				15	
SULFATE	48.9	1	50		98	90-110				15	

LCSD		Sample ID: IC211026-2			Units: MG/L		Analysis Date: 10/26/2021 13:53				
Client ID:		Run ID: IC211026-1A1			Prep Date: 10/26/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	10.4	0.2	10		104	90-110		10.2	2	15	
SULFATE	48.6	1	50		97	90-110		48.9	1	15	

<b>MB</b>		Sample ID: <b>IC211026-2</b>		Units: <b>MG/L</b>		Analysis Date: <b>10/26/2021 12:52</b>	
Client ID:		Run ID: <b>IC211026-1A1</b>		Prep Date: <b>10/26/2021</b>		DF: <b>1</b>	
Analyte		Result	ReportLimit				
CHLORIDE		ND	0.2				
SULFATE		ND	1				

The following samples were analyzed in this batch:

2110338-1

**Client:** Great Western Operating Company, LLC  
**Work Order:** 2110338  
**Project:** Kodak 34-44

## QC BATCH REPORT

Batch ID: **TD211021-1-2** Instrument ID **Balance** Method: **SM2540C**

LCS	Sample ID: TD211021-1			Units: MG/L			Analysis Date: 10/25/2021				
Client ID:		Run ID: TD211025-1A1			Prep Date: 10/21/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	387	20	400		97	85-115				14	

LCSD	Sample ID: TD211021-1			Units: MG/L			Analysis Date: 10/25/2021				
Client ID:	Run ID: TD211025-1A1			Prep Date: 10/21/2021			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	388	20	400		97	85-115		387	0	14	

<b>MB</b>		Sample ID: <b>TD211021-1</b>		Units: <b>MG/L</b>		Analysis Date: <b>10/25/2021</b>	
Client ID:		Run ID: <b>TD211025-1A1</b>		Prep Date: <b>10/21/2021</b>		DF: <b>1</b>	
Analyte		Result	ReportLimit				
TOTAL DISSOLVED SOLIDS		ND	20				

The following samples were analyzed in this batch:

2110338-1