



ANALYTICAL REPORT

March 21, 2022

Revised Report

Entrada Consulting Group

Sample Delivery Group: L1469648

Samples Received: 03/09/2022

Project Number:

Description: HCWTF

Report To:

Stuart Hall

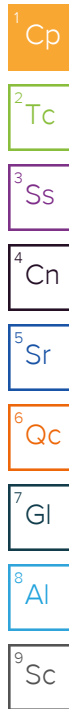
240 Mesa Avenue

Grand Junction, CO 81501

Entire Report Reviewed By:

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

20220307-HCWTF-MW11 L1469648-01 GW

Collected by
J McLarty

Collected date/time
03/07/22 10:30

Received date/time
03/09/22 19:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1832563	1	03/15/22 11:33	03/15/22 18:01	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1830282	1	03/10/22 18:03	03/10/22 18:03	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1830600	1	03/10/22 18:58	03/10/22 18:58	JAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

20220307-HCWTF-MW6 L1469648-02 GW

Collected by
J McLarty

Collected date/time
03/07/22 11:00

Received date/time
03/09/22 19:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1833633	1	03/16/22 18:47	03/16/22 19:41	BRG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1830282	5	03/10/22 18:22	03/10/22 18:22	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1830600	1	03/10/22 19:45	03/10/22 19:45	JAH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



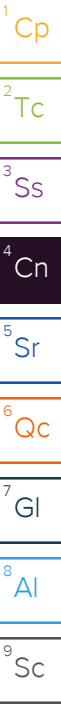
Jason Romer
Project Manager

Report Revision History

Level II Report - Version 1: 03/21/22 09:58

Project Narrative

Revised sample ID



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	604	T8	13.3	1	03/15/2022 18:01	WG1832563

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	48.6		0.379	1.00	1	03/10/2022 18:03	WG1830282
Sulfate	25.6		0.594	5.00	1	03/10/2022 18:03	WG1830282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	03/10/2022 18:58	WG1830600
Toluene	U		0.000278	0.00100	1	03/10/2022 18:58	WG1830600
Ethylbenzene	U		0.000137	0.00100	1	03/10/2022 18:58	WG1830600
Xylenes, Total	U		0.000174	0.00300	1	03/10/2022 18:58	WG1830600
Naphthalene	U		0.00100	0.00500	1	03/10/2022 18:58	WG1830600
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/10/2022 18:58	WG1830600
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/10/2022 18:58	WG1830600
(S) Toluene-d8	106			80.0-120		03/10/2022 18:58	WG1830600
(S) 4-Bromofluorobenzene	104			77.0-126		03/10/2022 18:58	WG1830600
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/10/2022 18:58	WG1830600

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	684		13.3	1	03/16/2022 19:41	WG1833633

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	150		1.90	5.00	5	03/10/2022 18:22	WG1830282
Sulfate	25.4		2.97	25.0	5	03/10/2022 18:22	WG1830282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	03/10/2022 19:45	WG1830600
Toluene	U		0.000278	0.00100	1	03/10/2022 19:45	WG1830600
Ethylbenzene	U		0.000137	0.00100	1	03/10/2022 19:45	WG1830600
Xylenes, Total	U		0.000174	0.00300	1	03/10/2022 19:45	WG1830600
Naphthalene	U		0.00100	0.00500	1	03/10/2022 19:45	WG1830600
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/10/2022 19:45	WG1830600
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/10/2022 19:45	WG1830600
(S) Toluene-d8	107			80.0-120		03/10/2022 19:45	WG1830600
(S) 4-Bromofluorobenzene	97.2			77.0-126		03/10/2022 19:45	WG1830600
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/10/2022 19:45	WG1830600

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3771108-1 03/15/22 18:01

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1469357-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1469357-05 03/15/22 18:01 • (DUP) R3771108-3 03/15/22 18:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	680	665	1	2.18		5

L1470122-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1470122-03 03/15/22 18:01 • (DUP) R3771108-4 03/15/22 18:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	800	797	1	0.334		5

Laboratory Control Sample (LCS)

(LCS) R3771108-2 03/15/22 18:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8550	97.2	77.4-123	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3771574-1 03/16/22 19:41

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1469065-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1469065-10 03/16/22 19:41 • (DUP) R3771574-3 03/16/22 19:41

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	ND	ND	1	0.000		5

L1469648-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1469648-02 03/16/22 19:41 • (DUP) R3771574-4 03/16/22 19:41

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	684	692	1	1.16		5

Laboratory Control Sample (LCS)

(LCS) R3771574-2 03/16/22 19:41

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8510	96.7	77.4-123	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3768824-1 03/10/22 11:27

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1469694-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1469694-04 03/10/22 19:38 • (DUP) R3768824-3 03/10/22 19:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	75.7	75.7	1	0.0215		15
Sulfate	69.0	68.9	1	0.0913		15

L1469694-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1469694-10 03/10/22 22:47 • (DUP) R3768824-5 03/10/22 23:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	52.7	52.6	1	0.135		15
Sulfate	28.0	27.8	1	0.780		15

Laboratory Control Sample (LCS)

(LCS) R3768824-2 03/10/22 11:46

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	39.9	99.8	80.0-120	
Sulfate	40.0	39.4	98.6	80.0-120	

L1469694-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1469694-04 03/10/22 19:38 • (MS) R3768824-4 03/10/22 20:54

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	75.7	126	99.8	1	80.0-120	E
Sulfate	50.0	69.0	120	103	1	80.0-120	E

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1469694-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1469694-10 03/10/22 22:47 • (MS) R3768824-6 03/10/22 23:25 • (MSD) R3768824-7 03/10/22 23:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	50.0	52.7	103	103	101	99.7	1	80.0-120	E	E	0.501	15
Sulfate	50.0	28.0	80.2	79.4	104	103	1	80.0-120			1.02	15

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3768952-3 03/10/22 13:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
Naphthalene	U		0.00100	0.00500
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	97.8			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3768952-1 03/10/22 12:08 • (LCSD) R3768952-2 03/10/22 12:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00484	0.00495	96.8	99.0	70.0-123			2.25	20
Toluene	0.00500	0.00506	0.00547	101	109	79.0-120			7.79	20
Ethylbenzene	0.00500	0.00494	0.00526	98.8	105	79.0-123			6.27	20
Xylenes, Total	0.0150	0.0144	0.0154	96.0	103	79.0-123			6.71	20
Naphthalene	0.00500	0.00303	0.00294	60.6	58.8	54.0-135			3.02	20
1,2,4-Trimethylbenzene	0.00500	0.00517	0.00522	103	104	76.0-121			0.962	20
1,3,5-Trimethylbenzene	0.00500	0.00514	0.00551	103	110	76.0-122			6.95	20
(S) Toluene-d8				110	112	80.0-120				
(S) 4-Bromofluorobenzene				93.1	95.6	77.0-126				
(S) 1,2-Dichloroethane-d4				102	105	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

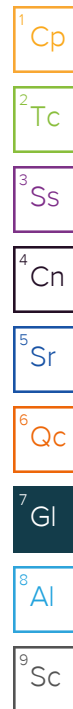
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Entrada Consulting Group

330 Grand Ave, Unit C
Grand Junction, CO 81501

Report to:
Stuart Hall

Project Description:

HCWTF

City/State
Collected:

Collbran, CO

Please Circle:
PT MT CT ET

Phone: 970-640-0568

Client Project #

Lab Project #
ENTCONGJCO-915

Collected by (print):

Collected by (signature):

Site/Facility ID #

P.O. #

Rush? (Lab MUST Be Notified)

Same Day ☐ Five Day ☒
Next Day ☐ 5 Day (Rad Only) ☐
Two Day ☐ 10 Day (Rad Only) ☐
Three Day ☐

Quote #

Date Results Needed

No.
of
Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Cntrs

20220307-HCWTF-MW11

Grab

GW

3/7/22

1030

5

20220307-HCWTF-MW6

Grab

GW

3/7/22

1100

5

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

501612319886

Relinquished by: (Signature)

Date:

3/7/22

Time:

1430

Received by: (Signature)

Trip Blank Received: Yes ☒ No

HCL/MeOH
TBR

Relinquished by: (Signature)

Date:

3/7/22

Time:

1530

Received by: (Signature)

Temp: 2.8 °C Bottles Received: 10

Relinquished by: (Signature)

Date:

3/9/22

Time:

1930

Received for lab by: (Signature)

Patricia Smith

Date: 3/9/22 Time: 1930

Hold:

Condition:

NCF 10 OK

Analysis / Container / Preservative

Pres
Chk

CHLORIDE,SULFATE 125mlHDPE-NoPres

TDS 250mlHDPE-NoPres

V8260 40mlAmb-HCI

Chain of Custody Page ___ of ___



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # 21469648
C166

Acctnum: ENTCONGJCO

Template: T180606

Prelogin: P822085

PM: 824 - Chris Ward

PB:

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

-01

-02

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP Y N
COC Signed/Accurate: ☒ Y N
Bottles arrive intact: ☒ Y N
Correct bottles used: ☒ Y N
Sufficient volume sent: ☒ Y N
If Applicable
VOA Zero Headspace: ☒ Y N
Preservation Correct/Checked: ☒ Y N
RAD Screen <0.5 mR/hr: ☒ Y N

If preservation required by Login: Date/Time