

March 06, 2020

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Entrada Consulting Group

Sample Delivery Group: L1194318
Samples Received: 02/29/2020
Project Number:
Description: Rock Springs
Site: ROCK SPRINGS
Report To: Stuart Hall
240 Mesa Avenue
Grand Junction, CO 81501

Entire Report Reviewed By:

Chris Ward

Chris Ward
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.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



RS7 L1194318-01 GW

				Collected by Robert Stockton	Collected date/time 02/24/20 12:40	Received date/time 02/29/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1436785	1	03/02/20 14:03	03/02/20 14:03	ADM	Mt. Juliet, TN

¹ Cp² Tc³ Ss

RS4 L1194318-02 GW

				Collected by Robert Stockton	Collected date/time 02/24/20 13:50	Received date/time 02/29/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1436785	1	03/02/20 14:27	03/02/20 14:27	ADM	Mt. Juliet, TN

⁴ Cn⁵ Sr

RS5 L1194318-03 GW

				Collected by Robert Stockton	Collected date/time 02/24/20 14:20	Received date/time 02/29/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1436785	1	03/02/20 14:52	03/02/20 14:52	ADM	Mt. Juliet, TN

⁶ Qc⁷ Gl

DS L1194318-04 GW

				Collected by Robert Stockton	Collected date/time 02/24/20 12:10	Received date/time 02/29/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1436785	1	03/02/20 15:16	03/02/20 15:16	ADM	Mt. Juliet, TN

⁸ Al⁹ Sc

SS L1194318-05 GW

				Collected by Robert Stockton	Collected date/time 02/24/20 15:55	Received date/time 02/29/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1436785	1	03/02/20 15:40	03/02/20 15:40	ADM	Mt. Juliet, TN

POND L1194318-06 GW

				Collected by Robert Stockton	Collected date/time 02/24/20 12:00	Received date/time 02/29/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1436785	1	03/02/20 16:04	03/02/20 16:04	ADM	Mt. Juliet, TN



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.

Chris Ward
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/02/2020 14:03	WG1436785
Toluene	ND		0.00100	1	03/02/2020 14:03	WG1436785
Ethylbenzene	ND		0.000500	1	03/02/2020 14:03	WG1436785
Total Xylene	ND		0.00150	1	03/02/2020 14:03	WG1436785
TPH (GC/FID) Low Fraction	ND		0.100	1	03/02/2020 14:03	WG1436785
(S) a,a,a-Trifluorotoluene(FID)	102		78.0-120		03/02/2020 14:03	WG1436785
(S) a,a,a-Trifluorotoluene(PID)	91.3		79.0-125		03/02/2020 14:03	WG1436785

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/02/2020 14:27	WG1436785
Toluene	ND		0.00100	1	03/02/2020 14:27	WG1436785
Ethylbenzene	ND		0.000500	1	03/02/2020 14:27	WG1436785
Total Xylene	ND		0.00150	1	03/02/2020 14:27	WG1436785
TPH (GC/FID) Low Fraction	ND		0.100	1	03/02/2020 14:27	WG1436785
(S) a,a,a-Trifluorotoluene(FID)	101		78.0-120		03/02/2020 14:27	WG1436785
(S) a,a,a-Trifluorotoluene(PID)	91.1		79.0-125		03/02/2020 14:27	WG1436785

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/02/2020 14:52	WG1436785
Toluene	ND		0.00100	1	03/02/2020 14:52	WG1436785
Ethylbenzene	ND		0.000500	1	03/02/2020 14:52	WG1436785
Total Xylene	ND		0.00150	1	03/02/2020 14:52	WG1436785
TPH (GC/FID) Low Fraction	ND		0.100	1	03/02/2020 14:52	WG1436785
(S) a,a,a-Trifluorotoluene(FID)	101		78.0-120		03/02/2020 14:52	WG1436785
(S) a,a,a-Trifluorotoluene(PID)	91.1		79.0-125		03/02/2020 14:52	WG1436785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/02/2020 15:16	WG1436785
Toluene	ND		0.00100	1	03/02/2020 15:16	WG1436785
Ethylbenzene	ND		0.000500	1	03/02/2020 15:16	WG1436785
Total Xylene	ND		0.00150	1	03/02/2020 15:16	WG1436785
TPH (GC/FID) Low Fraction	ND		0.100	1	03/02/2020 15:16	WG1436785
(S) a,a,a-Trifluorotoluene(FID)	101		78.0-120		03/02/2020 15:16	WG1436785
(S) a,a,a-Trifluorotoluene(PID)	90.7		79.0-125		03/02/2020 15:16	WG1436785

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/02/2020 15:40	WG1436785
Toluene	0.00444		0.00100	1	03/02/2020 15:40	WG1436785
Ethylbenzene	0.00457		0.000500	1	03/02/2020 15:40	WG1436785
Total Xylene	0.0363		0.00150	1	03/02/2020 15:40	WG1436785
TPH (GC/FID) Low Fraction	0.187		0.100	1	03/02/2020 15:40	WG1436785
(S) a,a,a-Trifluorotoluene(FID)	102		78.0-120		03/02/2020 15:40	WG1436785
(S) a,a,a-Trifluorotoluene(PID)	91.7		79.0-125		03/02/2020 15:40	WG1436785

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/02/2020 16:04	WG1436785
Toluene	ND		0.00100	1	03/02/2020 16:04	WG1436785
Ethylbenzene	ND		0.000500	1	03/02/2020 16:04	WG1436785
Total Xylene	ND		0.00150	1	03/02/2020 16:04	WG1436785
TPH (GC/FID) Low Fraction	ND		0.100	1	03/02/2020 16:04	WG1436785
(S) a,a,a-Trifluorotoluene(FID)	102		78.0-120		03/02/2020 16:04	WG1436785
(S) a,a,a-Trifluorotoluene(PID)	91.2		79.0-125		03/02/2020 16:04	WG1436785

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Method Blank (MB)

(MB) R3506025-3 03/02/20 13:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	102			78.0-120
(S) a,a,a-Trifluorotoluene(PID)	91.3			79.0-125

1
Cp

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Sr

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Qc

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Gl

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Al

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Sc

Laboratory Control Sample (LCS)

(LCS) R3506025-1 03/02/20 09:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.05	91.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			85.0	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			98.1	79.0-125	

Laboratory Control Sample (LCS)

(LCS) R3506025-2 03/02/20 11:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0466	93.2	77.0-122	
Toluene	0.0500	0.0496	99.2	80.0-121	
Ethylbenzene	0.0500	0.0549	110	80.0-123	
Total Xylene	0.150	0.163	109	47.0-154	
(S) a,a,a-Trifluorotoluene(FID)			101	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			90.3	79.0-125	



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.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

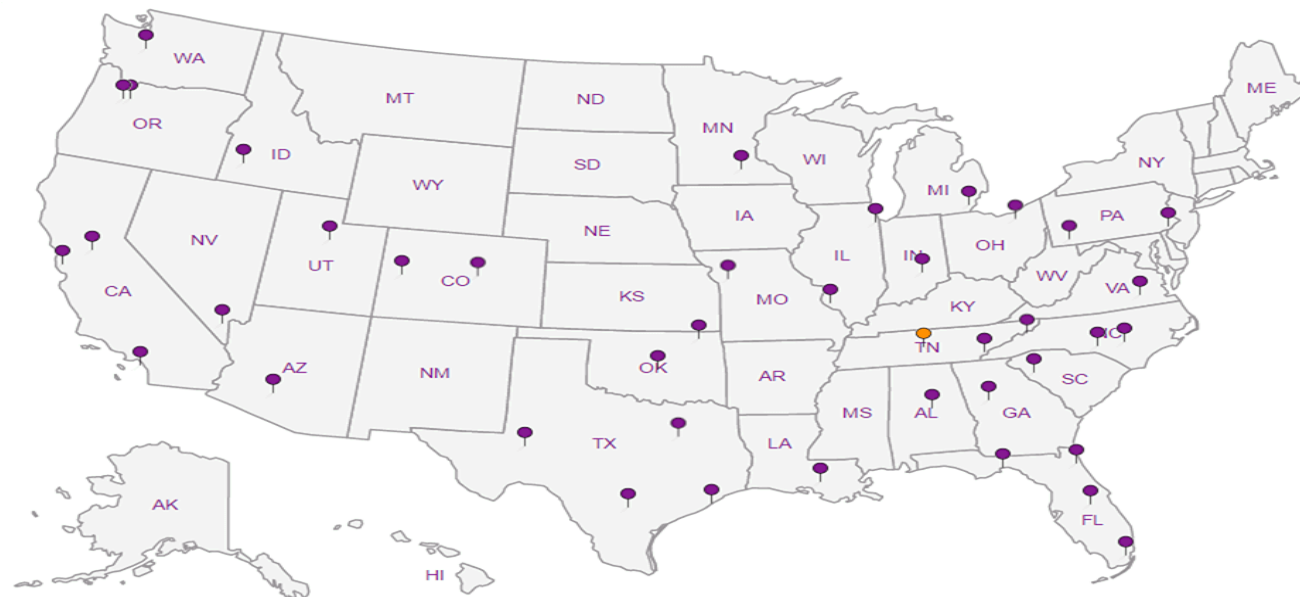
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Entrada

Grand Junction, CO

Billing Information:

Report to: Robert Shadeton

Project: Rock Springs

Phone:

Collected by (print): Robert Shadeton

Collected by (signature):

Immediately Packed on Ice: N ☐ Y ☒

Email To: rshadeton@entradainc.com

City/State: Debeque, CO

Lab Project #

P.O. #

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

BTX GR

Chain of Custody Page 1 of 1

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

L# 1194318

Tab J141

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Remarks	Sample # (lab only)
RS 7	G	GW		2/24/20	1240	2		01
RS 4					1350			02
RS 5					1420			03
DS					1210			04
SS					1555			05
POND	G	GW		3/24/20	1200	1		06

* 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 # 682711030977

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☒ 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

Relinquished by (Signature):

Date: 2/28/2020

Time: 1500

Received by (Signature):

Temp: 12°C

Bottles Received: 12

Relinquished by (Signature):

Date: 2/28/2020

Time: 1700

Received for lab by (Signature):

Date: 2/29/20

Time: 845

HCL / MeOH

RAD SCREEN: <0.5 mR/hr

If preservation required by Login: Date/Time

June 23, 2020

Entrada Consulting Group

Sample Delivery Group: L1229454
Samples Received: 06/16/2020
Project Number:
Description: Rock Springs

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.

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DOWNSTEAM L1229454-01 GW

				Collected by Jason McLarty	Collected date/time 06/15/20 12:45	Received date/time 06/16/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1495090	1	06/19/20 22:58	06/19/20 22:58	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1494264	1	06/17/20 18:51	06/17/20 18:51	JCP	Mt. Juliet, TN

¹ Cp² Tc³ Ss

POND L1229454-02 GW

				Collected by Jason McLarty	Collected date/time 06/15/20 12:05	Received date/time 06/16/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1495090	1	06/19/20 23:21	06/19/20 23:21	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1494264	1	06/17/20 19:11	06/17/20 19:11	JCP	Mt. Juliet, TN

⁴ Cn⁵ Sr⁶ Qc

SOUTH SPRING L1229454-03 GW

				Collected by Jason McLarty	Collected date/time 06/15/20 13:05	Received date/time 06/16/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1495090	1	06/19/20 23:43	06/19/20 23:43	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1494264	1	06/17/20 19:31	06/17/20 19:31	JCP	Mt. Juliet, TN

⁷ Gl⁸ Al⁹ Sc

NORTH SPRING L1229454-04 GW

				Collected by Jason McLarty	Collected date/time 06/15/20 13:15	Received date/time 06/16/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1495090	1	06/20/20 00:45	06/20/20 00:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1494264	1	06/17/20 19:51	06/17/20 19:51	JCP	Mt. Juliet, TN

RS 5 L1229454-05 GW

				Collected by Jason McLarty	Collected date/time 06/15/20 13:30	Received date/time 06/16/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1495090	10	06/20/20 01:07	06/20/20 01:07	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1494264	10	06/17/20 20:11	06/17/20 20:11	JCP	Mt. Juliet, TN

RS 4 L1229454-06 GW

				Collected by Jason McLarty	Collected date/time 06/15/20 13:45	Received date/time 06/16/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1495090	1	06/20/20 01:29	06/20/20 01:29	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1494264	1	06/17/20 20:31	06/17/20 20:31	JCP	Mt. Juliet, TN

RS 2 L1229454-07 GW

				Collected by Jason McLarty	Collected date/time 06/15/20 14:10	Received date/time 06/16/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1495090	1	06/20/20 01:52	06/20/20 01:52	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1494264	1	06/17/20 20:51	06/17/20 20:51	JCP	Mt. Juliet, TN



RS 7 L1229454-08 GW

Collected by
Jason McLartyCollected date/time
06/15/20 14:25Received date/time
06/16/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1495090	1	06/20/20 02:14	06/20/20 02:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1494600	1	06/18/20 05:23	06/18/20 05:23	JCP	Mt. Juliet, TN

¹ Cp² Tc³ Ss

RS 9 L1229454-09 GW

Collected by
Jason McLartyCollected date/time
06/15/20 14:40Received date/time
06/16/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1495090	1	06/20/20 02:36	06/20/20 02:36	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1494600	1	06/18/20 05:43	06/18/20 05:43	JCP	Mt. Juliet, TN

⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/19/2020 22:58	WG1495090
(S) a,a,a-Trifluorotoluene(FID)	92.9		78.0-120		06/19/2020 22:58	WG1495090

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/17/2020 18:51	WG1494264
Toluene	ND		0.00100	1	06/17/2020 18:51	WG1494264
Ethylbenzene	ND		0.00100	1	06/17/2020 18:51	WG1494264
Total Xylenes	ND		0.00300	1	06/17/2020 18:51	WG1494264
(S) Toluene-d8	110		80.0-120		06/17/2020 18:51	WG1494264
(S) 4-Bromofluorobenzene	95.7		77.0-126		06/17/2020 18:51	WG1494264
(S) 1,2-Dichloroethane-d4	109		70.0-130		06/17/2020 18:51	WG1494264

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/19/2020 23:21	WG1495090
(S) a,a,a-Trifluorotoluene(FID)	93.4		78.0-120		06/19/2020 23:21	WG1495090

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/17/2020 19:11	WG1494264
Toluene	ND		0.00100	1	06/17/2020 19:11	WG1494264
Ethylbenzene	ND		0.00100	1	06/17/2020 19:11	WG1494264
Total Xylenes	ND		0.00300	1	06/17/2020 19:11	WG1494264
(S) Toluene-d8	110		80.0-120		06/17/2020 19:11	WG1494264
(S) 4-Bromofluorobenzene	96.6		77.0-126		06/17/2020 19:11	WG1494264
(S) 1,2-Dichloroethane-d4	112		70.0-130		06/17/2020 19:11	WG1494264

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/19/2020 23:43	WG1495090
(S) a,a,a-Trifluorotoluene(FID)	93.2		78.0-120		06/19/2020 23:43	WG1495090

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/17/2020 19:31	WG1494264
Toluene	ND		0.00100	1	06/17/2020 19:31	WG1494264
Ethylbenzene	ND		0.00100	1	06/17/2020 19:31	WG1494264
Total Xylenes	ND		0.00300	1	06/17/2020 19:31	WG1494264
(S) Toluene-d8	108		80.0-120		06/17/2020 19:31	WG1494264
(S) 4-Bromofluorobenzene	97.8		77.0-126		06/17/2020 19:31	WG1494264
(S) 1,2-Dichloroethane-d4	109		70.0-130		06/17/2020 19:31	WG1494264

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/20/2020 00:45	WG1495090
(S) a,a,a-Trifluorotoluene(FID)	92.8		78.0-120		06/20/2020 00:45	WG1495090

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/17/2020 19:51	WG1494264
Toluene	ND		0.00100	1	06/17/2020 19:51	WG1494264
Ethylbenzene	ND		0.00100	1	06/17/2020 19:51	WG1494264
Total Xylenes	ND		0.00300	1	06/17/2020 19:51	WG1494264
(S) Toluene-d8	109		80.0-120		06/17/2020 19:51	WG1494264
(S) 4-Bromofluorobenzene	99.0		77.0-126		06/17/2020 19:51	WG1494264
(S) 1,2-Dichloroethane-d4	109		70.0-130		06/17/2020 19:51	WG1494264

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		1.00	10	06/20/2020 01:07	WG1495090
(S) a,a,a-Trifluorotoluene(FID)	93.5		78.0-120		06/20/2020 01:07	WG1495090

Sample Narrative:

L1229454-05 WG1495090: Dilution due to sediment in vial.

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.0100	10	06/17/2020 20:11	WG1494264
Toluene	ND		0.0100	10	06/17/2020 20:11	WG1494264
Ethylbenzene	ND		0.0100	10	06/17/2020 20:11	WG1494264
Total Xylenes	ND		0.0300	10	06/17/2020 20:11	WG1494264
(S) Toluene-d8	111		80.0-120		06/17/2020 20:11	WG1494264
(S) 4-Bromofluorobenzene	95.4		77.0-126		06/17/2020 20:11	WG1494264
(S) 1,2-Dichloroethane-d4	109		70.0-130		06/17/2020 20:11	WG1494264

Sample Narrative:

L1229454-05 WG1494264: sample diluted due to sediment

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/20/2020 01:29	WG1495090
(S) a,a,a-Trifluorotoluene(FID)	93.3		78.0-120		06/20/2020 01:29	WG1495090

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/17/2020 20:31	WG1494264
Toluene	ND		0.00100	1	06/17/2020 20:31	WG1494264
Ethylbenzene	ND		0.00100	1	06/17/2020 20:31	WG1494264
Total Xylenes	ND		0.00300	1	06/17/2020 20:31	WG1494264
(S) Toluene-d8	111		80.0-120		06/17/2020 20:31	WG1494264
(S) 4-Bromofluorobenzene	99.1		77.0-126		06/17/2020 20:31	WG1494264
(S) 1,2-Dichloroethane-d4	110		70.0-130		06/17/2020 20:31	WG1494264

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/20/2020 01:52	WG1495090
(S) a,a,a-Trifluorotoluene(FID)	92.9		78.0-120		06/20/2020 01:52	WG1495090

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/17/2020 20:51	WG1494264
Toluene	ND		0.00100	1	06/17/2020 20:51	WG1494264
Ethylbenzene	ND		0.00100	1	06/17/2020 20:51	WG1494264
Total Xylenes	ND		0.00300	1	06/17/2020 20:51	WG1494264
(S) Toluene-d8	111		80.0-120		06/17/2020 20:51	WG1494264
(S) 4-Bromofluorobenzene	96.5		77.0-126		06/17/2020 20:51	WG1494264
(S) 1,2-Dichloroethane-d4	110		70.0-130		06/17/2020 20:51	WG1494264

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/20/2020 02:14	WG1495090
(S) a,a,a-Trifluorotoluene(FID)	93.5		78.0-120		06/20/2020 02:14	WG1495090

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/18/2020 05:23	WG1494600
Toluene	ND		0.00100	1	06/18/2020 05:23	WG1494600
Ethylbenzene	ND		0.00100	1	06/18/2020 05:23	WG1494600
Total Xylenes	ND		0.00300	1	06/18/2020 05:23	WG1494600
(S) Toluene-d8	109		80.0-120		06/18/2020 05:23	WG1494600
(S) 4-Bromofluorobenzene	98.3		77.0-126		06/18/2020 05:23	WG1494600
(S) 1,2-Dichloroethane-d4	109		70.0-130		06/18/2020 05:23	WG1494600

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.895		0.100	1	06/20/2020 02:36	WG1495090
(S) a,a,a-Trifluorotoluene(FID)	88.4		78.0-120		06/20/2020 02:36	WG1495090

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0548		0.00100	1	06/18/2020 05:43	WG1494600
Toluene	ND		0.00100	1	06/18/2020 05:43	WG1494600
Ethylbenzene	0.00672		0.00100	1	06/18/2020 05:43	WG1494600
Total Xylenes	0.0902		0.00300	1	06/18/2020 05:43	WG1494600
(S) Toluene-d8	101		80.0-120		06/18/2020 05:43	WG1494600
(S) 4-Bromofluorobenzene	96.6		77.0-126		06/18/2020 05:43	WG1494600
(S) 1,2-Dichloroethane-d4	107		70.0-130		06/18/2020 05:43	WG1494600

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) R3541927-3 06/19/20 20:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0495	⬇	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	93.3			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3541927-2 06/19/20 19:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.20	94.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			97.6	78.0-120	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3540773-3 06/17/20 11:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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

(LCS) R3540773-1 06/17/20 10:37 • (LCSD) R3540773-2 06/17/20 11:18

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	0.00475	0.00422	95.0	84.4	70.0-123			11.8	20
Ethylbenzene	0.00500	0.00483	0.00441	96.6	88.2	79.0-123			9.09	20
Toluene	0.00500	0.00471	0.00429	94.2	85.8	79.0-120			9.33	20
Xylenes, Total	0.0150	0.0148	0.0135	98.7	90.0	79.0-123			9.19	20
(S) Toluene-d8				111	109	80.0-120				
(S) 4-Bromofluorobenzene				104	104	77.0-126				
(S) 1,2-Dichloroethane-d4				106	106	70.0-130				



Method Blank (MB)

(MB) R3540774-3 06/17/20 22:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	94.9			77.0-126
(S) 1,2-Dichloroethane-d4	110			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

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

(LCS) R3540774-1 06/17/20 21:30 • (LCSD) R3540774-2 06/17/20 21:50

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	0.00449	0.00446	89.8	89.2	70.0-123			0.670	20
Ethylbenzene	0.00500	0.00419	0.00428	83.8	85.6	79.0-123			2.13	20
Toluene	0.00500	0.00444	0.00434	88.8	86.8	79.0-120			2.28	20
Xylenes, Total	0.0150	0.0135	0.0134	90.0	89.3	79.0-123			0.744	20
(S) Toluene-d8				108	107	80.0-120				
(S) 4-Bromofluorobenzene				102	100	77.0-126				
(S) 1,2-Dichloroethane-d4				108	109	70.0-130				

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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.
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

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ENTRADA CONSULTING GROUP
330 Grand Avenue, Unit C
Grand Junction, CO 81501

Billing Information:

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page ____ of ____



YOUR LAB OF CHOICE

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



L # 129454

Table # 1211

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Remarks Sample # (lab only)

Report to:

Stuart Hall

Email To:

shall@entradainc.com

Project

Description: Rock Springs

City/State

Collected: Colorado

Phone: 970.712.7329

Fax:

Client Project #

Lab Project #

Collected by (print):

Jason McLarty

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately

Packed on Ice N ☐ Y ☒

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

Date Results Needed

No.
of
Cnts

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Downstream

Grab

GW

6/15/20

1245

3

X

X

Pond

Grab

GW

6/15/20

1255

3

X

X

South Spring

Grab

GW

6/15/20

1305

3

X

X

North Spring

Grab

GW

6/15/20

1315

3

X

X

RS 5

Grab

GW

6/15/20

1330

3

X

X

RS 4

Grab

GW

6/15/20

1345

3

X

X

RS 2

Grab

GW

6/15/20

1410

3

X

X

RS 7

Grab

GW

6/15/20

1425

3

X

X

RS 9

Grab

GW

6/15/20

1440

3

X

X

* Matrix:

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

Remarks:

Please send copy of report to - shall@entradainc.com

pH Temp

Flow Other

Samples returned via:

UPS FedEx Courier

Tracking # 1676 2750 7092

Sample Receipt Checklist

COC Seal Present/Intact: NP ☒ N
COC Signed/Accurate: ☒ N
Bottles arrive intact: ☒ N
Correct bottles used: ☒ N
Sufficient volume sent: ☒ N
If Applicable
VOA Zero Headspace: ☒ N
Preservation Correct/Checked: ☒ N

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes (No) ☒
HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 47.1-4.0 °C
Bottles Received: 27

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 6/16/20
Time: 845

Hold:

Condition:
NCF / 0

September 11, 2020

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Entrada Consulting Group

Sample Delivery Group: L1257880

Samples Received: 09/03/2020

Project Number:

Description: Rock Springs

Report To: Stuart Hall
240 Mesa Avenue
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward
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.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



RS7 L1257880-01 GW

				Collected by Jason McLarty	Collected date/time 09/02/20 10:00	Received date/time 09/03/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1538582	1	09/05/20 12:16	09/05/20 12:16	ACG	Mt. Juliet, TN

¹ Cp² Tc³ Ss

RS9 L1257880-02 GW

				Collected by Jason McLarty	Collected date/time 09/02/20 10:50	Received date/time 09/03/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1538582	1	09/05/20 12:38	09/05/20 12:38	ACG	Mt. Juliet, TN

⁴ Cn⁵ Sr

DOWNSTREAM L1257880-03 GW

				Collected by Jason McLarty	Collected date/time 09/02/20 11:15	Received date/time 09/03/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1538582	1	09/05/20 13:00	09/05/20 13:00	ACG	Mt. Juliet, TN

⁶ Qc⁷ Gl

POND L1257880-04 GW

				Collected by Jason McLarty	Collected date/time 09/02/20 11:30	Received date/time 09/03/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1538582	1	09/05/20 13:22	09/05/20 13:22	ACG	Mt. Juliet, TN

⁸ Al⁹ Sc

SOUTH SPRING L1257880-05 GW

				Collected by Jason McLarty	Collected date/time 09/02/20 11:40	Received date/time 09/03/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1538582	1	09/05/20 13:44	09/05/20 13:44	ACG	Mt. Juliet, TN

NORTH SPRING L1257880-06 GW

				Collected by Jason McLarty	Collected date/time 09/02/20 11:50	Received date/time 09/03/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1538582	1	09/05/20 14:06	09/05/20 14:06	ACG	Mt. Juliet, TN

RS2 L1257880-07 GW

				Collected by Jason McLarty	Collected date/time 09/02/20 12:05	Received date/time 09/03/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1538582	1	09/05/20 14:28	09/05/20 14:28	ACG	Mt. Juliet, TN

RS4 L1257880-08 GW

				Collected by Jason McLarty	Collected date/time 09/02/20 12:30	Received date/time 09/03/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1538582	1	09/05/20 14:50	09/05/20 14:50	ACG	Mt. Juliet, TN



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.

Chris Ward
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	09/05/2020 12:16	WG1538582
Toluene	ND		0.00100	1	09/05/2020 12:16	WG1538582
Ethylbenzene	ND		0.000500	1	09/05/2020 12:16	WG1538582
Total Xylene	ND		0.00150	1	09/05/2020 12:16	WG1538582
TPH (GC/FID) Low Fraction	ND		0.100	1	09/05/2020 12:16	WG1538582
(S) a,a,a-Trifluorotoluene(FID)	95.7		78.0-120		09/05/2020 12:16	WG1538582
(S) a,a,a-Trifluorotoluene(PID)	101		79.0-125		09/05/2020 12:16	WG1538582

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0550		0.000500	1	09/05/2020 12:38	WG1538582
Toluene	ND		0.00100	1	09/05/2020 12:38	WG1538582
Ethylbenzene	0.00621		0.000500	1	09/05/2020 12:38	WG1538582
Total Xylene	0.0447		0.00150	1	09/05/2020 12:38	WG1538582
TPH (GC/FID) Low Fraction	0.475		0.100	1	09/05/2020 12:38	WG1538582
(S) a,a,a-Trifluorotoluene(FID)	95.4		78.0-120		09/05/2020 12:38	WG1538582
(S) a,a,a-Trifluorotoluene(PID)	99.2		79.0-125		09/05/2020 12:38	WG1538582

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	09/05/2020 13:00	WG1538582
Toluene	ND		0.00100	1	09/05/2020 13:00	WG1538582
Ethylbenzene	ND		0.000500	1	09/05/2020 13:00	WG1538582
Total Xylene	ND		0.00150	1	09/05/2020 13:00	WG1538582
TPH (GC/FID) Low Fraction	ND		0.100	1	09/05/2020 13:00	WG1538582
(S) a,a,a-Trifluorotoluene(FID)	95.4		78.0-120		09/05/2020 13:00	WG1538582
(S) a,a,a-Trifluorotoluene(PID)	100		79.0-125		09/05/2020 13:00	WG1538582

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	09/05/2020 13:22	WG1538582
Toluene	ND		0.00100	1	09/05/2020 13:22	WG1538582
Ethylbenzene	ND		0.000500	1	09/05/2020 13:22	WG1538582
Total Xylene	ND		0.00150	1	09/05/2020 13:22	WG1538582
TPH (GC/FID) Low Fraction	ND		0.100	1	09/05/2020 13:22	WG1538582
(S) a,a,a-Trifluorotoluene(FID)	96.0		78.0-120		09/05/2020 13:22	WG1538582
(S) a,a,a-Trifluorotoluene(PID)	100		79.0-125		09/05/2020 13:22	WG1538582

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	09/05/2020 13:44	WG1538582
Toluene	ND		0.00100	1	09/05/2020 13:44	WG1538582
Ethylbenzene	ND		0.000500	1	09/05/2020 13:44	WG1538582
Total Xylene	ND		0.00150	1	09/05/2020 13:44	WG1538582
TPH (GC/FID) Low Fraction	ND		0.100	1	09/05/2020 13:44	WG1538582
(S) a,a,a-Trifluorotoluene(FID)	95.7		78.0-120		09/05/2020 13:44	WG1538582
(S) a,a,a-Trifluorotoluene(PID)	101		79.0-125		09/05/2020 13:44	WG1538582

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	09/05/2020 14:06	WG1538582
Toluene	ND		0.00100	1	09/05/2020 14:06	WG1538582
Ethylbenzene	ND		0.000500	1	09/05/2020 14:06	WG1538582
Total Xylene	ND		0.00150	1	09/05/2020 14:06	WG1538582
TPH (GC/FID) Low Fraction	ND		0.100	1	09/05/2020 14:06	WG1538582
(S) a,a,a-Trifluorotoluene(FID)	95.7		78.0-120		09/05/2020 14:06	WG1538582
(S) a,a,a-Trifluorotoluene(PID)	101		79.0-125		09/05/2020 14:06	WG1538582

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	09/05/2020 14:28	WG1538582
Toluene	ND		0.00100	1	09/05/2020 14:28	WG1538582
Ethylbenzene	ND		0.000500	1	09/05/2020 14:28	WG1538582
Total Xylene	ND		0.00150	1	09/05/2020 14:28	WG1538582
TPH (GC/FID) Low Fraction	ND		0.100	1	09/05/2020 14:28	WG1538582
(S) a,a,a-Trifluorotoluene(FID)	96.1		78.0-120		09/05/2020 14:28	WG1538582
(S) a,a,a-Trifluorotoluene(PID)	101		79.0-125		09/05/2020 14:28	WG1538582

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	09/05/2020 14:50	WG1538582
Toluene	ND		0.00100	1	09/05/2020 14:50	WG1538582
Ethylbenzene	ND		0.000500	1	09/05/2020 14:50	WG1538582
Total Xylene	ND		0.00150	1	09/05/2020 14:50	WG1538582
TPH (GC/FID) Low Fraction	ND		0.100	1	09/05/2020 14:50	WG1538582
(S) a,a,a-Trifluorotoluene(FID)	95.9		78.0-120		09/05/2020 14:50	WG1538582
(S) a,a,a-Trifluorotoluene(PID)	101		79.0-125		09/05/2020 14:50	WG1538582

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3569119-3 09/05/20 08:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.7			78.0-120
(S) a,a,a-Trifluorotoluene(PID)	100			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3569119-1 09/05/20 07:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0431	86.2	77.0-122	
Toluene	0.0500	0.0476	95.2	80.0-121	
Ethylbenzene	0.0500	0.0513	103	80.0-123	
Total Xylene	0.150	0.145	96.7	47.0-154	
(S) a,a,a-Trifluorotoluene(FID)			95.6	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			100	79.0-125	

Laboratory Control Sample (LCS)

(LCS) R3569119-2 09/05/20 07:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.11	92.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			102	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			109	79.0-125	



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.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ENTRADA CONSULTING GROUP
330 Grand Avenue, Unit C
Grand Junction, CO 81501

Billing Information:

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page ____ of ____



Report to:
Stuart Hall

Email To:
shall@entradainc.com

Project
 Description: **Rock Springs**

City/State
 Collected: **DeBeque, CO**

Phone: **(970) 640-6919**
 Fax:

Client Project #

Lab Project #

Collected by (print):
Jason McLarty

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
 Packed on Ice N ☐ Y ☒

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

Date Results Needed

No.
 of
 Cntrs

BTEX

GRO

L# **4257880**

Table # **3139**

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX	GRO	Remarks	Sample # (lab only)
RS7	Grab	GW		8/2/20	1000	3	X	X		-01
RS9					1050	3	X	X		-02
Downstream					1115	3	X	X		-03
Pond					1130	3	X	X		-04
South spring					1140	3	X	X		-05
North spring					1150	3	X	X		-06
RS2	✓	✓		✓	1205	3	X	X		-07
RS4	✓	✓		✓	1230	3	X	X		-08

* 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 #

1676

pH _____ Temp _____

Flow _____ Other _____

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

Relinquished by: (Signature)

Date: **8/2/20**

Time: **1530**

Received by: (Signature)

Trip Blank Received: Yes ☐ No ☒
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date: **8/2/2020**

Time: **1700**

Received by: (Signature)

Temp: **3.8-13.7°C**
 Bottles Received: **24**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: **8/13/20**
 Time: **930**

Hold:

Condition:
 NCF / ☒ OK

Entrada Consulting Group

Sample Delivery Group: L1280410

Samples Received: 10/31/2020

Project Number:

Description: Rock Springs

Report To: Stuart Hall
240 Mesa Avenue
Grand Junction, CO 81501

Entire Report Reviewed By:

Chris Ward

Chris Ward
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.



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R54 L1280410-01 GW

				Collected by Jason McLarty	Collected date/time 10/30/20 10:30	Received date/time 10/31/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1571167	2	11/04/20 20:32	11/04/20 20:32	JHH	Mt. Juliet, TN

R59 L1280410-02 GW

				Collected by Jason McLarty	Collected date/time 10/30/20 10:00	Received date/time 10/31/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1571167	1	11/04/20 20:54	11/04/20 20:54	JHH	Mt. Juliet, TN

NORTH SPRING L1280410-03 GW

				Collected by Jason McLarty	Collected date/time 10/30/20 10:45	Received date/time 10/31/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1571167	1	11/04/20 21:16	11/04/20 21:16	JHH	Mt. Juliet, TN

SOUTH SPRING L1280410-04 GW

				Collected by Jason McLarty	Collected date/time 10/30/20 11:00	Received date/time 10/31/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1571167	1	11/04/20 21:38	11/04/20 21:38	JHH	Mt. Juliet, TN

POND L1280410-05 GW

				Collected by Jason McLarty	Collected date/time 10/30/20 11:10	Received date/time 10/31/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1571167	1	11/04/20 22:00	11/04/20 22:00	JHH	Mt. Juliet, TN

DOWNSTREAM L1280410-06 GW

				Collected by Jason McLarty	Collected date/time 10/30/20 11:20	Received date/time 10/31/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015/8021	WG1571167	1	11/04/20 22:22	11/04/20 22:22	JHH	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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.

Chris Ward
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	2	11/04/2020 20:32	WG1571167
Toluene	ND		0.00200	2	11/04/2020 20:32	WG1571167
Ethylbenzene	ND		0.00100	2	11/04/2020 20:32	WG1571167
Total Xylene	ND		0.00300	2	11/04/2020 20:32	WG1571167
TPH (GC/FID) Low Fraction	ND		0.200	2	11/04/2020 20:32	WG1571167
(S) a,a,a-Trifluorotoluene(FID)	96.2		78.0-120		11/04/2020 20:32	WG1571167
(S) a,a,a-Trifluorotoluene(PID)	102		79.0-125		11/04/2020 20:32	WG1571167

Sample Narrative:

L1280410-01 WG1571167: Lowest possible dilution due to sediment in sample vial.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.100		0.000500	1	11/04/2020 20:54	WG1571167
Toluene	0.00261		0.00100	1	11/04/2020 20:54	WG1571167
Ethylbenzene	0.0169		0.000500	1	11/04/2020 20:54	WG1571167
Total Xylene	0.165		0.00150	1	11/04/2020 20:54	WG1571167
TPH (GC/FID) Low Fraction	1.51		0.100	1	11/04/2020 20:54	WG1571167
(S) a,a,a-Trifluorotoluene(FID)	93.8		78.0-120		11/04/2020 20:54	WG1571167
(S) a,a,a-Trifluorotoluene(PID)	99.8		79.0-125		11/04/2020 20:54	WG1571167

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	11/04/2020 21:16	WG1571167
Toluene	ND		0.00100	1	11/04/2020 21:16	WG1571167
Ethylbenzene	ND		0.000500	1	11/04/2020 21:16	WG1571167
Total Xylene	ND		0.00150	1	11/04/2020 21:16	WG1571167
TPH (GC/FID) Low Fraction	ND		0.100	1	11/04/2020 21:16	WG1571167
(S) a,a,a-Trifluorotoluene(FID)	95.7		78.0-120		11/04/2020 21:16	WG1571167
(S) a,a,a-Trifluorotoluene(PID)	101		79.0-125		11/04/2020 21:16	WG1571167

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	11/04/2020 21:38	WG1571167
Toluene	ND		0.00100	1	11/04/2020 21:38	WG1571167
Ethylbenzene	ND		0.000500	1	11/04/2020 21:38	WG1571167
Total Xylene	ND		0.00150	1	11/04/2020 21:38	WG1571167
TPH (GC/FID) Low Fraction	ND		0.100	1	11/04/2020 21:38	WG1571167
(S) a,a,a-Trifluorotoluene(FID)	95.6		78.0-120		11/04/2020 21:38	WG1571167
(S) a,a,a-Trifluorotoluene(PID)	101		79.0-125		11/04/2020 21:38	WG1571167

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	11/04/2020 22:00	WG1571167
Toluene	ND		0.00100	1	11/04/2020 22:00	WG1571167
Ethylbenzene	ND		0.000500	1	11/04/2020 22:00	WG1571167
Total Xylene	ND		0.00150	1	11/04/2020 22:00	WG1571167
TPH (GC/FID) Low Fraction	ND		0.100	1	11/04/2020 22:00	WG1571167
(S) a,a,a-Trifluorotoluene(FID)	95.9		78.0-120		11/04/2020 22:00	WG1571167
(S) a,a,a-Trifluorotoluene(PID)	101		79.0-125		11/04/2020 22:00	WG1571167

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	11/04/2020 22:22	WG1571167
Toluene	ND		0.00100	1	11/04/2020 22:22	WG1571167
Ethylbenzene	ND		0.000500	1	11/04/2020 22:22	WG1571167
Total Xylene	ND		0.00150	1	11/04/2020 22:22	WG1571167
TPH (GC/FID) Low Fraction	ND		0.100	1	11/04/2020 22:22	WG1571167
(S) a,a,a-Trifluorotoluene(FID)	96.1		78.0-120		11/04/2020 22:22	WG1571167
(S) a,a,a-Trifluorotoluene(PID)	102		79.0-125		11/04/2020 22:22	WG1571167

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) R3589669-3 11/04/20 13:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.8			78.0-120
(S) a,a,a-Trifluorotoluene(PID)	101			79.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3589669-1 11/04/20 12:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0455	91.0	77.0-122	
Toluene	0.0500	0.0499	99.8	80.0-121	
Ethylbenzene	0.0500	0.0551	110	80.0-123	
Total Xylene	0.150	0.157	105	47.0-154	
(S) a,a,a-Trifluorotoluene(FID)			95.7	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			101	79.0-125	

Laboratory Control Sample (LCS)

(LCS) R3589669-2 11/04/20 12:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.78	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			102	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			110	79.0-125	



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.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

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

Our Locations

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ENTRADA CONSULTING GROUP
330 Grand Avenue, Unit C
Grand Junction, CO 81501

Report to:
Stuart Hall

Billing Information:

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page ____ of ____

Project
 Description: **Rock Springs**

City/State
 Collected: **CO**

Phone: **(970.712.7329)**
 Fax:

Client Project #

Lab Project #

Collected by (print):
Jason McLarty

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
 Packed on Ice N ☐ Y ☒

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

Date Results Needed

No.
 of
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPH (DRO and GRO)	BTEX	Table 910-1 groundwater	Table 910-1 PAHs	EC, SAR, pH	Arsenic	GRO
RS4	Grab	GW		10/30/20	1030	4		X					X
RS9					1000	4		X					X
North Spring					1045	4		X					X
South Spring					1100	4		X					X
Pond					1110	4		X					X
Down stream					1120	4		X					X

* 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 #

1676 2750 485

pH Temp

Flow Other

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
 IIC Applicable
 VOA Zero Headspace: ☒ Y N
 Preservation Correct/Checked: ☒ Y N

Relinquished by: (Signature)

Date: 10/30/20 Time: 1400

Received by: (Signature)

Trip Blank Received: Yes/No
 HCL/MeOH
 TBR

Relinquished by: (Signature)

Date: 10/30/20 Time: 1700

Received by: (Signature)

Temp: 4.4/2.4/6 24
 Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)

Date: 10/31/2020 Time: 09:00

Hold:

Condition:
 NCF / OK