

OPERATOR		TOPO SECTIONS	COUNTY	LEGEND
ANGLE RIGHT LAND SURVEYING, LLC 1584 Road Fork Road Grantsville, WV 26147 (304) 354-0065	MOUNTAIN V OIL & GAS P.O. Box 470 Bridgeport, WV 26330	Kettle 7.5	ROANE	
		DATE:	DISTRICTS	▼ WATER MONITORING SITE ▲ UIC WELL ★ UIC FACILITY SCALE 1-INCH = 2000 FEET 0' 2000' 4000' 6000'
180624 SAMPLE SITE		07/12/2019	WALTON	

- RIDGEFIELD BUSINESS CENTER**
25 CRIMSON CIRCLE
MARTINSBURG, WV 25403
TEL. (304) 596-2084 • FAX (304) 596-2086

*ADDRESS 1384 Koppert Rd., Grantsville, WV 26147

CUSTOMER # _____

*TEL. # 304 354-0065 FAX # _____

*SAMPLER(S) Terry Shore E-MAIL _____

E-MAIL

*PROJECT/REMARKS

SHEET NO. _____ OF _____

[illegible]

SAMPLES DO ☒ DO NOT ☐ MEET USEPA GUIDELINES FOR HOLDING TIMES

REMARKS:

PWS#

SAMPLES DO MEET USEPA GUIDELINES FOR CHEMICAL PRESERVATIVES

SAMPLES DO ✓ DO NOT MEET USEPA GUIDELINES FOR SAMPLE CONTAINERS

SAMPLES ARE _____ ARE NOT _____ FOR REGULATORY COMPLIANCE PURPOSES

*RELINQUISHED BY:	*DATE/TIME	*RECEIVED BY:
-------------------	------------	---------------

PRINT: Henry Shreeve
SIGN: [Signature]
DATE: 1-2-9
TIME: 1:59

PRINT: 

SIGN: 

*RELINQUISHED BY:	*DATE/TIME
-------------------	------------

***RECEIVED BY:**

PRINT: _____ DATE: _____
SIGN: _____ TIME: _____

PRINT: _____

SIGN: _____

*RELINQUISHED BY:	*DATE/TIME
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***RECEIVED BY:**

PRINT: _____ DATE: _____
SIGN: _____ TIME: _____

PRINT:
SIGN:

*COURIER:	*DATE/TIME
DATE:	

***RECEIVED BY:**

TRACKING #:	TIME:
-------------	-------

SIGN: _____

WEATHER/TEMPERATURE:

☐ **RUSH STATUS** (INITIAL ACCEPTANCE _____)

*** ADDITIONAL LABORATORY FEES MAY APPLY***

EXTENT OF LIABILITY

SHOULD RELIANT LABORATORIES, INC. BE AT FAULT AND ANY DISPUTE ARISE REGARDING ANALICAL DATA GENERATED BY THE LABORATORY THE EXTENT OF THE LIABILITY TO RELIANCE WILL BE A DUPLICATE ANALYSIS OF THAT SAMPLE (PROVIDING ADEQUATE SAMPLE REMAINS) OR A REFUND OF THE ANALYTICAL FEE. IN NO EVENT WILL RELIANCE LABORATORIES BE LIABLE FOR DAMAGES INCLUDING BUT NOT LIMITED TO DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING FROM SUCH DISPUTE.

NOTE: TYPICAL SAMPLE TURN AROUND FOR ROUTINE SAMPLES IS 5 TO 10 WORKING DAYS. THIS IS NOT A GUARANTEE THAT SAMPLES WILL BE COMPLETED IN THIS TIME FRAME. HOWEVER, NON-ROUTINE SAMPLES MAY REQUIRE ADDITIONAL TIME.

*** TO BE COMPLETED BY CLIENT**

ORIGINAL CHAIN OF CUSTODY DOCUMENT MUST BE EXECUTED IN INK

WHITE - LABORATORY YELLOW - CLIENT

- ☐ RIDGEFIELD BUSINESS CENTER
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IN | ERNE | www.reliancelabs.net

Angle Right Land Survey in 3

1584 Red Fork Rd. Grantsville, WV 26147

1000

*TEL. # 304 354-0063 FAX #

Terry Shore

E-MAIL angle right @ frontier.net.us

*PROJECT/REMARKS

SHEET NO. _____ OF _____

[illegible]

PWS#

SAMPLES DO ☒ DO NOT MEET USEPA GUIDELINES FOR HOLDING TIMES
 SAMPLES DO ☐ DO NOT MEET USEPA GUIDELINES FOR CHEMICAL PRESERVATIVES
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(INITIAL ACCEPTANCE _____)

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Phone: 304.596.2084 | Fax: 304.596.2086

Certifications: WV Department of Health #: 00354, 00443 | WV Department of Environmental Protection #: 158, 181
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

LABORATORY REPORT SUMMARY

Client: C05493

Wednesday, August 28, 2019

ANGLE RIGHT SURVEYING
1584 ROAD FORK ROAD
GRANTSVILLE

WV 26147-

Total Number of Pages: 3
(Not Including C.O.C.)
Page 1 of 3

Lab ID	Sample ID	Sample ID 2	Sample Date
308819-2019-W	STREAM SAMPLE (GREEN CREEK)	UIC2D08702003	7/12/2019

The enclosed results have been analyzed according to the referenced method and SOP. Any deviations to the method have been noted on the report. Unless otherwise noted, all results have been verified to meet quality control requirements of the method. All analysis performed by Reliance Laboratories, Bridgeport, WV or Reliance Laboratories, Martinsburg, WV, as noted on laboratory report. This report may not be reproduced, except in full, without written approval of Reliance Laboratories, Inc.

Report Reviewed By: 

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ANGLE RIGHT SURVEYING
1584 ROAD FORK ROAD

Wednesday, August 28, 2019

Page 2 of 3

GRANTSVILLE, WV 26147-

Lab Number: 308819-2019-W **Sample ID:** STREAM SAMPLE (GREEN CREEK)
UIC2D08702003

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MRL
Analyte Group: <u>Inorganics</u>							
Total Organic Carbon	3.52	mg/l	SM5310C-11	7/22/2019	9:14 TH	0.1	0.5
pH	# 6.51	S.U.	SM4500H+B-11	7/29/2019	13:20 CP		
Total Suspended Solids	1052	mg/l	USGS I-3765-85	7/16/2019	13:45 CP	4	5
Total Aluminum	0.70	mg/l	EPA 200.7 R4.4	7/18/2019	11:10 TH	0.03	0.05
Total Iron	0.68	mg/l	EPA 200.7 R4.4	7/18/2019	11:10 TH	0.02	0.05
Total Manganese	0.89	mg/l	EPA 200.7 R4.4	7/18/2019	11:10 TH	0.03	0.05
Total Dissolved Solids	444	mg/l	USGS I-1750-85	7/16/2019	13:45 CP	10	20
Total Sulfate	4.16	mg/l	EPA 300.0 R2.1	8/5/2019	12:15 TM	0.52	0.5
Total Chloride	152	mg/l	EPA 300.0 R2.1	8/5/2019	12:15 TM	0.15	0.5
Total Barium	0.44	mg/l	EPA 200.7 R4.4	7/18/2019	11:10 TH	0.003	0.05
Total Arsenic	ND	mg/l	EPA 200.7 R4.4	7/18/2019	11:10 TH	0.007	0.05
Total Calcium	65.3	mg/l	EPA 200.7 R4.4	7/18/2019	11:10 TH	0.13	0.5
Total Sodium	63.1	mg/l	EPA 200.7 R4.4	7/18/2019	11:10 TH	0.04	0.5
Total Bromide	ND	mg/l	EPA 300.0 R2.1	8/5/2019	12:15 TM	0.13	0.25
Total Strontium	0.38	mg/l	EPA 200.7 R4.4	7/18/2019	12:54 TH	0.01	0.1

Remarks:

Analysis performed by Reliance Laboratories Bridgeport, WV

Date Sample Collected: 7/12/2019 8:45

Sample Submitted By: T.SHREVE

Date Sample Received: 7/12/2019 11:50

Sample temp. upon receipt: 4.4 Deg C

ND = Not Detected at the MDL or MRL

MDL - Minimum Detectable Limit

MRL - Minimum Reporting Limit

MCL - Maximum Contaminant Level, USEPA Regulated

J = Reported value is an estimate because concentration is less than the MRL

*Method Code: STANDARD METHODS ONLINE ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.

NOTE: #Holding time exceeded for this analysis. This falls outside criteria set by 40CFR136.



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ANGLE RIGHT SURVEYING
1584 ROAD FORK ROAD

Wednesday, August 28, 2019

Page 3 of 3

GRANTSVILLE, WV 26147-

Lab Number: 308819-2019-W Sample ID: STREAM SAMPLE (GREEN CREEK)
UIC2D08702003

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MRL
Analyte Group: <u>Total Petroleum Hydrocarbons</u>							
TPH - DRO	ND	mg/l	SW8015B/3535A	7/24/2019	12:27 TM	0.68	1
TPH - ORO	ND	mg/l	SW8015B/3535A	7/24/2019	12:27 TM	0.54	1
o-Terphenyl (Surrogate)	105	%	SW8015B	7/24/2019	12:27 TM		
Benzene	ND	mg/l	SW8021B/5030B	7/24/2019	13:56 TM	0.0007	0.01
Ethylbenzene	ND	mg/l	SW8021B/5030B	7/24/2019	13:56 TM	0.0014	0.01
Toluene	ND	mg/l	SW8021B/5030B	7/24/2019	13:56 TM	0.002	0.01
TPH - GRO	ND	mg/l	SW8015B/5030B	7/24/2019	13:56 TM	0.04	0.5
Xylene	ND	mg/l	SW8021B/5030B	7/24/2019	13:56 TM	0.003	0.01
4-Bromochlorobenzene (Surrogate)	105	%	SW8021B/8015B	7/24/2019	13:56 TM		

Remarks:

Analysis performed by Reliance Laboratories Bridgeport, WV

Date Sample Collected: 7/12/2019 8:45
Sample Submitted By: T.SHREVE
Date Sample Received: 7/12/2019 11:50

Sample temp. upon receipt: 4.4 Deg C

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E-MAIL reliancelabs@wvdsi.net
INTERNET www.RelianceLabs.com



*CLIENT NAME Angle Light Land Surveying

*ADDRESS 1584 Road Fork Rd. CATHAM, VA 22824

CUSTOMER # 05412
 *SAMPLER (S) Terry Shreve
 E-MAIL anglekright@frontier.net
 E-MAIL anglekright@frontier.net

*SAMPLER(S) Terry Shreve

[illegible]

REMARKS:

PWS#

SAMPLES DO	DO NOT	MEET USEPA GUIDELINES FOR HOLDING TIMES
SAMPLES DO	DO NOT	MEET USEPA GUIDELINES FOR CHEMICAL PRESERVATIVES
SAMPLES DO	DO NOT	MEET USEPA GUIDELINES FOR SAMPLE CONTAINERS
SAMPLES ARE	ARE NOT	FOR REGULATORY COMPLIANCE PURPOSES

*RECEIVED BY: _____

*RELINQUISHED BY: <u>Kenny Shaw</u> PRINT: <u>Kenny Shaw</u> SIGN: <u>[Signature]</u>	*DATE/TIME DATE: <u>7-12-91</u> TIME: <u>11:50</u>	*RECEIVED BY: PRINT: <u>[Signature]</u> SIGN: <u>[Signature]</u>
*RELINQUISHED BY: PRINT: SIGN:	*DATE/TIME DATE: TIME:	*RECEIVED BY: PRINT: SIGN:

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	DATE:		PRINT:

WEATHER/TEMPERATURE:

☐ **RUSH STATUS** (INITIAL ACCEPTANCE _____)

EXTENT OF LIABILITY

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*** TO BE COMPLETED BY CLIENT**

CONTRACT DOCUMENT MUST BE EXECUTED IN INK

WHITE - LABORATORY



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Certifications: WV Department of Health #: 00354, 00443 | WV Department of Environmental Protection #: 158, 181
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

LABORATORY REPORT SUMMARY

Client: C05493

Wednesday, August 28, 2019

ANGLE RIGHT SURVEYING
1584 ROAD FORK ROAD
GRANTSVILLE

WV 26147-

Total Number of Pages: 3
(Not Including C.O.C.)
Page 1 of 3

Lab ID	Sample ID	Sample ID 2	Sample Date
308818-2019-W	STREAM SAMPLE (CLINT HOLLOW)	UIC2D08702003	7/12/2019

The enclosed results have been analyzed according to the referenced method and SOP. Any deviations to the method have been noted on the report. Unless otherwise noted, all results have been verified to meet quality control requirements of the method. All analysis performed by Reliance Laboratories, Bridgeport, WV or Reliance Laboratories, Martinsburg, WV, as noted on laboratory report. This report may not be reproduced, except in full, without written approval of Reliance Laboratories, Inc.

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ANGLE RIGHT SURVEYING
1584 ROAD FORK ROAD

Wednesday, August 28, 2019

Page 2 of 3

GRANTSVILLE, WV 26147-

Lab Number: 308818-2019-W **Sample ID:** STREAM SAMPLE (CLINT HOLLOW)
UIC2D08702003

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MRL
Analyte Group: <u>Inorganics</u>							
Total Organic Carbon	0.58	mg/l	SM5310C-11	7/22/2019	9:14 TH	0.1	0.5
pH	# 6.65	S.U.	SM4500H+B-11	7/29/2019	13:20 CP		
Total Suspended Solids	116	mg/l	USGS I-3765-85	7/16/2019	13:45 CP	4	5
Total Aluminum	0.17	mg/l	EPA 200.7 R4.4	7/18/2019	11:07 TH	0.03	0.05
Total Iron	0.15	mg/l	EPA 200.7 R4.4	7/18/2019	11:07 TH	0.02	0.05
Total Manganese	0.32	mg/l	EPA 200.7 R4.4	7/18/2019	11:07 TH	0.03	0.05
Total Dissolved Solids	258	mg/l	USGS I-1750-85	7/16/2019	13:45 CP	10	20
Total Sulfate	14.9	mg/l	EPA 300.0 R2.1	8/5/2019	12:02 TM	0.52	0.5
Total Chloride	40.9	mg/l	EPA 300.0 R2.1	8/5/2019	12:02 TM	0.15	0.5
Total Barium	0.14	mg/l	EPA 200.7 R4.4	7/18/2019	11:07 TH	0.003	0.05
Total Arsenic	ND	mg/l	EPA 200.7 R4.4	7/18/2019	11:07 TH	0.007	0.05
Total Calcium	54.7	mg/l	EPA 200.7 R4.4	7/18/2019	11:07 TH	0.13	0.5
Total Sodium	14.6	mg/l	EPA 200.7 R4.4	7/18/2019	11:07 TH	0.04	0.5
Total Bromide	ND	mg/l	EPA 300.0 R2.1	8/5/2019	12:02 TM	0.13	0.25
Total Strontium	0.26	mg/l	EPA 200.7 R4.4	7/18/2019	12:52 TH	0.01	0.1

Remarks:

Analysis performed by Reliance Laboratories Bridgeport, WV

Date Sample Collected: 7/12/2019 9:15
Sample Submitted By: T.SHREVE
Date Sample Received: 7/12/2019 11:50
Sample temp. upon receipt: 4.4 Deg C

MDL - Minimum Detectable Limit

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ANGLE RIGHT SURVEYING
1584 ROAD FORK ROAD

Wednesday, August 28, 2019

Page 3 of 3

GRANTSVILLE, WV 26147-

Lab Number: 308818-2019-W **Sample ID:** STREAM SAMPLE (CLINT HOLLOW)
UIC2D08702003

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MRL
Analyte Group: Total Petroleum Hydrocarbons							
TPH - DRO	ND	mg/l	SW8015B/3535A	7/24/2019	11:44 TM	0.68	1
TPH - ORO	ND	mg/l	SW8015B/3535A	7/24/2019	11:44 TM	0.54	1
o-Terphenyl (Surrogate)	83.4	%	SW8015B	7/24/2019	11:44 TM		
Benzene	ND	mg/l	SW8021B/5030B	7/24/2019	11:13 TM	0.0007	0.01
Ethylbenzene	ND	mg/l	SW8021B/5030B	7/24/2019	11:13 TM	0.0014	0.01
Toluene	ND	mg/l	SW8021B/5030B	7/24/2019	11:13 TM	0.002	0.01
TPH - GRO	ND	mg/l	SW8015B/5030B	7/24/2019	11:13 TM	0.04	0.5
Xylene	ND	mg/l	SW8021B/5030B	7/24/2019	11:13 TM	0.003	0.01
4-Bromochlorobenzene (Surrogate)	90.5	%	SW8021B/8015B	7/24/2019	11:13 TM		

Remarks:

Analysis performed by Reliance Laboratories Bridgeport, WV

Date Sample Collected: 7/12/2019 9:15

Sample Submitted By: T.SHREVE

Date Sample Received: 7/12/2019 11:50

Sample temp. upon receipt: 4.4 Deg C

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Client: C05493

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1584 ROAD FORK ROAD
GRANTSVILLE

WV 26147-

Total Number of Pages: 4
(Not Including C.O.C.)
Page 1 of 4

Lab ID	Sample ID	Sample ID 2	Sample Date
308820-2019-W	INJECT WELL SAMPLE(GM SUMMERS)	UIC2D08702003	7/12/2019

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ANGLE RIGHT SURVEYING
1584 ROAD FORK ROAD

Wednesday, August 28, 2019

Page 2 of 4

GRANTSVILLE, WV 26147-

Lab Number: 308820-2019-W **Sample ID:** INJECT WELL SAMPLE(GM SUMMERS)
UIC2D08702003

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MRL
Analyte Group: <u>Inorganics</u>							
Total Organic Carbon	ND	mg/l	SM5310C-11	7/22/2019	9:14 TH	0.1	0.5
Total Aluminum	ND	mg/l	EPA 200.7 R4.4	7/18/2019	11:18 TH	0.03	0.05
Total Iron	96.1	mg/l	EPA 200.7 R4.4	7/18/2019	11:18 TH	0.02	0.05
Total Manganese	3.35	mg/l	EPA 200.7 R4.4	7/18/2019	11:18 TH	0.03	0.05
pH	# 4.03	S.U.	SM4500H+B-11	7/29/2019	13:20 CP		
Total Sulfate	ND	mg/l	EPA 300.0 R2.1	8/5/2019	13:19 TM	0.52	0.5
Total Chloride	10325	mg/l	EPA 300.0 R2.1	8/5/2019	13:19 TM	0.15	0.5
Total Dissolved Solids	# 166310	mg/l	USGS I-1750-85	7/22/2019	11:30 CP	10	20
Total Suspended Solids	# 680	mg/l	USGS I-3765-85	7/22/2019	11:30 CP	4	5
Total Barium	291	mg/l	EPA 200.7 R4.4	7/18/2019	11:18 TH	0.003	0.05
Total Arsenic	3.18	mg/l	EPA 200.7 R4.4	7/18/2019	11:18 TH	0.007	0.05
Specific Gravity	1.152	g/cc	ASTM D1429-08	7/31/2019	14:55 TH		
Total Calcium	18440	mg/l	EPA 200.7 R4.4	7/18/2019	11:18 TH	0.13	0.5
Total Sodium	57280	mg/l	EPA 200.7 R4.4	7/18/2019	11:18 TH	0.04	0.5
Total Bromide	ND	mg/l	EPA 300.0 R2.1	8/5/2019	13:19 TM	0.13	0.25
Total Strontium	289	mg/l	EPA 200.7 R4.4	7/18/2019	13:02 TH	0.01	0.1

Remarks:

Analysis performed by Reliance Laboratories Bridgeport, WV

Date Sample Collected: 7/12/2019 8:30

Sample Submitted By: T.SHREVE

Date Sample Received: 7/12/2019 11:50

Sample temp. upon receipt: 4.4 Deg C

ND = Not Detected at the MDL or MRL

MDL - Minimum Detectable Limit

MRL - Minimum Reporting Limit

MCL - Maximum Contaminant Level, USEPA Regulated

J = Reported value is an estimate because concentration is less than the MRL

*Method Code: STANDARD METHODS ONLINE ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.

NOTE: #Holding time exceeded for this analysis. This falls outside criteria set by 40CFR136.



Reliance Laboratories, Inc.
2044 Meadowbrook Road | P.O. Box 4657
Bridgeport, WV 26330
Phone: 304.842.5285 | Fax: 304.842.5351

Martinsburg Laboratory
Ridgefield Business Center | 25 Crimson Circle
Martinsburg, WV 25403
Phone: 304.596.2084 | Fax: 304.596.2086

Certifications: WV Department of Health #: 00354, 00443 | WV Department of Environmental Protection #: 158, 181
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

ANGLE RIGHT SURVEYING
1584 ROAD FORK ROAD

Wednesday, August 28, 2019

Page 3 of 4

GRANTSVILLE, WV 26147-

Lab Number: 308820-2019-W **Sample ID:** INJECT WELL SAMPLE(GM SUMMERS)
UIC2D08702003

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MRL
Analyte Group: <u>Organics</u>							
Benzene	0.364	mg/l	SW8021B/5030B	7/24/2019	14:30 TM	0.0007	0.01
Ethylbenzene	0.014	mg/l	SW8021B/5030B	7/24/2019	14:30 TM	0.0014	0.01
Toluene	0.200	mg/l	SW8021B/5030B	7/24/2019	14:30 TM	0.002	0.01
Xylene	0.088	mg/l	SW8021B/5030B	7/24/2019	14:30 TM	0.003	0.01
4-Bromochlorobenzene (Surrogate)	104	%	SW8021B	7/24/2019	14:30 TM		

Remarks:

Analysis performed by Reliance Laboratories Bridgeport, WV

Date Sample Collected: 7/12/2019 8:30

Sample Submitted By: T.SHREVE

Date Sample Received: 7/12/2019 11:50

Sample temp. upon receipt: 4.4 Deg C

MDL - Minimum Detectable Limit

MCL - Maximum Contaminant Level, USEPA Regulated

ND = Not Detected at the MDL or MRL

MRL - Minimum Reporting Limit

J = Reported value is an estimate because concentration is less than the MRL

*Method Code: STANDARD METHODS ONLINE ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.

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MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

ANGLE RIGHT SURVEYING
1584 ROAD FORK ROAD

Wednesday, August 28, 2019

Page 4 of 4

GRANTSVILLE, WV 26147-

Lab Number: 308820-2019-W **Sample ID:** INJECT WELL SAMPLE(GM SUMMERS)
UIC2D08702003

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MRL
Analyte Group: Total Petroleum Hydrocarbons							
TPH - DRO	7.74	mg/l	SW8015B/3535A	7/24/2019	13:09 TM	0.68	1
TPH - GRO	5.06	mg/l	SW8015B/5030B	7/24/2019	14:30 TM	0.04	0.5
TPH - ORO	1.32	mg/l	SW8015B/3535A	7/24/2019	13:09 TM	0.54	1
4-Bromochlorobenzene (Surrogate)	123	%	SW8015B	7/24/2019	14:30 TM		
o-Terphenyl (Surrogate)	71.8	%	SW8015B	7/24/2019	13:09 TM		

Remarks:

Analysis performed by Reliance Laboratories Bridgeport, WV

Date Sample Collected: 7/12/2019 8:30

Sample Submitted By: T.SHREVE

Date Sample Received: 7/12/2019 11:50

Sample temp. upon receipt: 4.4 Deg C

ND = Not Detected at the MDL or MRL

MDL - Minimum Detectable Limit

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*Method Code: STANDARD METHODS ONLINE ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.

NOTE: #Holding time exceeded for this analysis. This falls outside criteria set by 40CFR136.

July 26, 2019

Ms. Tenley Miller
Reliance Laboratories, Inc.
2044 Meadowbrook Road
P.O. Box 4657
Bridgeport, WV 26330

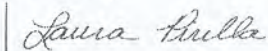
RE: Project: 308820
Pace Project No.: 30314036

Dear Ms. Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on July 16, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Laura M. Pirilla
laura.pirilla@pacelabs.com
(724)850-5616
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 308820
Pace Project No.: 30314036

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 308820
Pace Project No.: 30314036

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30314036001	308820-2019-W	Water	07/12/19 08:30	07/16/19 09:50

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SAMPLE ANALYTE COUNT

Project: 308820
Pace Project No.: 30314036

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30314036001	308820-2019-W	EPA 900.0	NEG	2
		EPA 903.1	MK1	1
		EPA 904.0	JLW	1

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 308820
Pace Project No.: 30314036

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: Reliance Laboratories, Inc.
Date: July 26, 2019

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 308820
Pace Project No.: 30314036

Method: EPA 903.1
Description: 903.1 Radium 226
Client: Reliance Laboratories, Inc.
Date: July 26, 2019

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 308820
Pace Project No.: 30314036

Method: EPA 904.0
Description: 904.0 Radium 228
Client: Reliance Laboratories, Inc.
Date: July 26, 2019

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 308820
Pace Project No.: 30314036

Sample: 308820-2019-W Lab ID: 30314036001 Collected: 07/12/19 08:30 Received: 07/16/19 09:50 Matrix: Water

PWS: Site ID: Sample Type:

Comments: • Sampler's signature not present on the subcontracted COC from Reliance.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	2,843 ± 1,155 (1,330) C:NA T:NA	pCi/L	07/23/19 19:25	12587-46-1	
Gross Beta	EPA 900.0	1,946 ± 856 (1,312) C:NA T:NA	pCi/L	07/23/19 19:25	12587-47-2	
Radium-226	EPA 903.1	1,331 ± 163 (1.57) C:NA T:95%	pCi/L	07/25/19 12:40	13982-63-3	
Radium-228	EPA 904.0	760 ± 137 (4.45) C:82% T:82%	pCi/L	07/25/19 15:56	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 308820
Pace Project No.: 30314036

QC Batch: 352175	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30314036001	

METHOD BLANK: 1711029	Matrix: Water
Associated Lab Samples: 30314036001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.490 ± 0.459 (0.650) C:NA T:86%	pCi/L	07/25/19 12:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 308820
Pace Project No.: 30314036

QC Batch:	352178	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
Associated Lab Samples:	30314036001		

METHOD BLANK:	1711033	Matrix:	Water
Associated Lab Samples:	30314036001		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.552 ± 0.449 (0.897) C:84% T:66%	pCi/L	07/25/19 15:55	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 308820
Pace Project No.: 30314036

QC Batch: 352850	Analysis Method: EPA 900.0
QC Batch Method: EPA 900.0	Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 30314036001	

METHOD BLANK: 1714418	Matrix: Water
Associated Lab Samples: 30314036001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.227 ± 0.226 (0.403) C:NA T:NA	pCi/L	07/23/19 19:22	
Gross Beta	0.326 ± 0.419 (0.798) C:NA T:NA	pCi/L	07/23/19 19:22	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 308820
Pace Project No.: 30314036

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name:

Beliance

Project # 30314036

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 7757 4052 7217

Label	<u>MG</u>
LIMS Login	<u>MG</u>

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Thermometer Used 11 A MG 7/16/19 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 2.4 °C Correction Factor: ± 0 °C Final Temp: 2.4 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>1003587</u>	<u>MG 7/16/19</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
-Includes date/time/ID Matrix: <u>WT</u>					
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Orthophosphate field filtered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Hex Cr Aqueous sample field filtered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Organic Samples checked for dechlorination:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>pH 2</u>	
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>MG</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Trip Blank Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>MG</u>	Date: <u>7/16/19</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.