Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

September 01, 2022

Desoto County
2170 N.E. Roan Street
Arcadia, FL 34266
TEL: (863) 491-7500
FAX:

RE: Lonesome Mine Order No.: 2208116

Dear :

Sanders Laboratories, Inc received 1 sample(s) on 8/2/2022 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of $50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
Nokomis Certificate # E84380 Fort Myers Certificate # E85457

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: **2208116**
Date: **9/1/2022**

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: Too many colonies were present for accurate counting.

Sanders Laboratories
Environmental Testing Services

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: **2208116**

Date Reported: **9/1/2022**

CLIENT: Desoto County **Lab Order:** 2208116

Project: Lonesome Mine

Lab ID: 2208116-001 **Collection Date:** 8/2/2022 10:55:00 AM

Client Sample ID: Lonesome mine D-002 mine **Matrix:** SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
TOTAL NITROGEN				**E351.2**		Analyst: **GC**
Nitrogen, Total	1.30	0.0300		mg/L	1	8/10/2022 3:40:00 PM
TOTAL PHOSPHOROUS				**E365.4**		Analyst: **GC**
Phosphorus, Total (As P)	0.223	0.0200		mg/L	1	8/10/2022 3:40:00 PM
CHLOROPHYLL A				**A10200H**		Analyst: **PS**
Chlorophyll a	12.5	1.00		mg/m³	1	8/3/2022 2:29:00 PM
Chlorophyll A, Corrected	12.5	1.00		mg/m³	1	8/3/2022 2:29:00 PM
Pheophytin	8.10	1.00		mg/m³	1	8/3/2022 2:29:00 PM
FLUORIDE				**A4500-F-C**		Analyst: **PS**
Fluoride	0.650	0.100		mg/L	1	8/5/2022 9:20:00 AM
SULFATE				**ASTM-D516-90**		Analyst: **EH**
Sulfate	101	1.00		mg/L	1	8/3/2022 4:54:00 PM
TOTAL SUSPENDED SOLIDS				**A2540D**		Analyst: **AT**
Residue, Suspended Solids	2.5	0.6		mg/L	1	8/2/2022 3:20:00 PM
TOTAL VOLATILE SUSPENDED SOLIDS				**E160.4**		Analyst: **AT**
Volatile Suspended Solids	2.70	0.600		mg/L	1	8/2/2022 3:20:00 PM
FIELD PARAMETERS				**FLD**		Analyst:
Conductivity, EPA 120.1	451.7	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	3.08	0.10		mg/L		
pH,EPA 150.1	7.59	0.01		S.U.		

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Original

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Environmental Testing Services

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Analytical Report

(continuous)

WO#: **2208116**

Date Reported: **9/1/2022**

CLIENT: Desoto County

Project: Lonesome Mine

Lab Order: 2208116

FIELD PARAMETERS **FLD** Analyst:

Salinity	0.21	0.01	ppt
Temperature, EPA 170.1	30.3	0.1	deg C
Turbidity, EPA 180.1	2.75	0.01	NTU

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Original

Sanders Laboratories
Environmental Testing Services

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 2208116

Client: Desoto County
Address:
Phone:
Fax:

Email: S.Walker@desotobocc.com
Report To: Sara Walker
Bill to:
P.O. #

Project Name:
Project Location: Lonesome Mine
Permit #:
Kit #:
Requested Due Date:

Preservative: HCL = H, HNO_3= N, $Na_2S_2O_3$ = ST
H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Sampled By (PRINT): Jason Covarus
Sampler Signature:

Matrix	Sample Description	Sample Date	Sample Time	Sample Type	Preservatives pH	Ice	S	H_2SO_4	HNO_3		Analysis Requested: TSS	T.P.S.	SO4 F.	TNTP	Nitro-N	CL	FOG	Gross Alpha	Rads		Field	Sample ID # (Lab Use Only)
SW	Lonesome mine V-002 mine	8/2/22	10:55	G		X					X										X	1A
						X						X										1B
						X							X									1C
					1.5			X						X								1D
						X									X							1E
					2.0				X							X						1F
					1.0 1.0			X		2							X					1G
					1.5 1.5	X			X									X	X			1H, 1I

Bottle Lot #	Chem ID	Exp Date	Comments	Okay to Run As Is... Client Initial:	Relinquished By/Affiliation	Date	Time	Accepted By/Affiliation	Date	Time
10			SHRS. Total time			8/2/22	14:45		8/2/22	14:45
8038806										
2041807			Temp °C ↓	Samples On Ice Yes No						
2066019 (11/21/10)			30.0							

By signing the Chain of Custody, the client, acknowledges, and authorizes analysis of the parameters listed above.

1050 Endeavor Ct, Nokomis, FL 34275-3623 (941) 488-8103 fax(941) 484-6774 10090 Bavaria Rd., Fort Myers, FL 33913 (239) 590-0337 fax (239) 590-0536

2066018 (ILA 0334) (3/21/2010)
05/622 - IDBH

Sanders Laboratories
Environmental Testing Services

2208116

Date: 8/2/22
Field Tech: Jason Govanus
Location: Desoto County

Site	Time	Flow* Ft/sec or tidal change	Total Depth ft	Sample Depth (ft)	Water Temp EPA 170.1 (C)	DO EPA 360.1 (mg/L)	DO (%)	Cond EPA 120.1 (umhos /cm)	Salinity SM 250B (ppt)	pH EPA 150.1 (std units)	Turbidity EPA 180.1 (NTU)	Weather		Air Temp (C)	Secchi (ft)
												Cloud Cover	Wind		
Lonesome Mine															
D-002	10:55	3-4in flow over weir	2ft	1ft	30.3	3.08	41.0	451.7	0.21	7.59	27.5	10% cover	E 4mph	31.7	

Tests/Bottles/Preservatives:

	Lot #	Preservative
250P	8038006	Ice SO_4, F ✓
~~500 P~~ 250m	B-038006	H_2SO_4 NITP ✓
1LP	2-066-019	HNO_3 GA ✓
2LP	10	Ice TSS TFS ✓
Other 2LP	10	HNO_3 Kads ✓

1L G.A. 2048007 Ice Chlor-A ✓
2L G.A. 295498 H_2SO_4 FOG x2 ✓
250ml P B-038006 HNO_3 qs ✓

Equipment Used: (circle)
Dip Stick (1) Secchi 4999

Multi	Turb	Depth	Peri Pump	Sub Pump
13E103015	20012585	0602	5105	OO2917

Date Revised:5/19/2020 Form ID: FF-03 Approved by: KS

Comments:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

August 30, 2022

Tami Bright
Sanders Laboratories, Inc.
1050 Endeavor Court
Nokomis, FL 34275

RE: Project: 2208116
Pace Project No.: 35736803

Dear Tami Bright:

Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte
- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - Greensburg

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

Sincerely,

Brad Smith
brad.smith@pacelabs.com
(386) 672-5668
Project Manager

Enclosures

cc: Sanders Labs Reporting (Email), Sanders Laboratories, Inc.
Katie Strothman, Sanders
Katie Strothman, Sanders Laboratories, Inc.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: 2208116
Pace Project No.: 35736803

Pace Analytical Services Pennsylvania
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 #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: 2208116
Pace Project No.: 35736803

Pace Analytical Services Ormond Beach

Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: 2208116
Pace Project No.: 35736803

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35736803001	**2208116-001**	Water	08/02/22 10:55	08/03/22 11:40

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: 2208116
Pace Project No.: 35736803

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35736803001	**2208116-001**	EPA 1664B	REL	1	PASI-C
		EPA 200.8	BSL	1	PASI-O
		EPA 900.0	ERT	1	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

PASI-C = Pace Analytical Services - Charlotte
PASI-O = Pace Analytical Services - Ormond Beach
PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 2208116
Pace Project No.: 35736803

Sample: 2208116-001 **Lab ID: 35736803001** Collected: 08/02/22 10:55 Received: 08/03/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664B Pace Analytical Services - Charlotte								
Oil and Grease	**1.6 I**	mg/L	4.9	1.1	1		08/11/22 23:00		
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Arsenic	**0.0024**	mg/L	0.0010	0.00050	1	08/05/22 02:39	08/05/22 11:02	7440-38-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: 2208116
Pace Project No.: 35736803

QC Batch: 716637
QC Batch Method: EPA 1664B
Analysis Method: EPA 1664B
Analysis Description: 1664 HEM, Oil and Grease
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 35736803001

METHOD BLANK: 3735779 Matrix: Water
Associated Lab Samples: 35736803001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Oil and Grease	mg/L	1.1 U	5.0	1.1	08/11/22 23:00	

LABORATORY CONTROL SAMPLE: 3735780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.1	90	78-114	

MATRIX SPIKE SAMPLE: 3735781

Parameter	Units	92618589002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	39.2	38.3	93	78-114	

SAMPLE DUPLICATE: 3735782

Parameter	Units	92618668002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.1 U		30	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: 2208116
Pace Project No.: 35736803

QC Batch: 845595
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35736803001

METHOD BLANK: 4650535 Matrix: Water
Associated Lab Samples: 35736803001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	0.00050 U	0.0010	0.00050	08/05/22 10:28	

LABORATORY CONTROL SAMPLE: 4650536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.05	0.049	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4650537 4650538

Parameter	Units	35736800001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.61 I ug/L	0.05	0.05	0.046	0.046	91	91	70-130	0	20	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2208116
Pace Project No.: 35736803

Sample: 2208116-001 **Lab ID: 35736803001** Collected: 08/02/22 10:55 Received: 08/03/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Gross Alpha	EPA 900.0	**4.22U ± 1.31 (4.22) C:NA T:NA**	pCi/L	08/30/22 08:22	12587-46-1	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.977U ± 0.562 (0.977) C:NA T:101%**	pCi/L	08/27/22 15:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.669U ± 0.357 (0.669) C:77% T:89%**	pCi/L	08/29/22 11:30	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2208116
Pace Project No.: 35736803

QC Batch: 525461
QC Batch Method: EPA 900.0
Analysis Method: EPA 900.0
Analysis Description: 900.0 Gross Alpha/Beta
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35736803001

METHOD BLANK: 2549011
Matrix: Water
Associated Lab Samples: 35736803001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.006 ± 0.532 (1.57) C:NA T:NA	pCi/L	08/30/22 08:36	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2208116
Pace Project No.: 35736803

QC Batch: 526504
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35736803001

METHOD BLANK: 2554366 Matrix: Water
Associated Lab Samples: 35736803001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.214 ± 0.327 (0.193) C:NA T:92%	pCi/L	08/27/22 16:04	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2208116
Pace Project No.: 35736803

QC Batch: 526507
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35736803001

METHOD BLANK: 2554368 Matrix: Water
Associated Lab Samples: 35736803001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.389 ± 0.320 (0.634) C:82% T:80%	pCi/L	08/29/22 11:34	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: 2208116
Pace Project No.: 35736803

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

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(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.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2208116
Pace Project No.: 35736803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35736803001	**2208116-001**	EPA 1664B	716637		
35736803001	**2208116-001**	EPA 200.8	845595	EPA 200.8	845607
35736803001	**2208116-001**	EPA 900.0	525461		
35736803001	**2208116-001**	EPA 903.1	526504		
35736803001	**2208116-001**	EPA 904.0	526507		

CHAIN OF CUSTODY RECORD

Omega COCID 20134	PAGE: 1	OF: 1

WO# : 35736803

35736803

ADDRESS
Nokomis Lab01
1050 Endeavor Court
Nokomis, FL 34275
TEL: (941) 234-1000
FAX: (941) 484-6774
Website: www.sanderslabs.net

SUB CONTRATOR: **Pace** COMPANY: **Pace Analytical**

ADDRESS: **8 East Tower Circle**

CITY, STATE, ZIP: **Ormond Beach, FL 32174**

PHONE: **(386) 676-4837** FAX: **(386) 673-4001** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2208116-001F	Lonesome mine D-		Surface Water	8/2/2022 10:55:00 AM	1	SW - 200.8 - As
	See Attached						
2	2208116-001G	Lonesome mine D-		Surface Water	8/2/2022 10:55:00 AM	1	SW - FOG
	See Attached						
3	2208116-001H	Lonesome mine D-		Surface Water	8/2/2022 10:55:00 AM	1	SW - Gross Alpha
	See Attached						
4	2208116-001I	Lonesome mine D-		Surface Water	8/2/2022 10:55:00 AM	1	SW - Rads 226/228
	See Attached						

Relinquished By: NMM	Date: 8/3/2022	Time: 11:00	Received By: Pace	Date: 8/3/22	Time: 1140
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

...m (SCUR)

Pace

WO# : 35736803
PM: BTS Due Date: 08/10/22
CLIENT: SANLAB

Project
Project Manage
Client

Date and Initials of person:
Examining contents:
Label:
Deliver:
pH:

Thermometer Used: T-319 Date: 8-3-22 Time: 12:06 Initials: CEJ

State of Origin: ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	4.6 (Visual)	-0.2 (Correction Factor)	4.4 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Recheck for OOT °C (Visual) (Correction Factor) (Actual) Time: Initials:

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

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☑ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 8166 0944 6512

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☑ No **Ice:** Wet Blue Melted None

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ one ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

		Comments:
Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☐Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☐ No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☐Yes ☐ No ☐N/A	
Containers Intact	☐Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked. All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G; PFAS	☐Yes ☐ No ☐N/A ☐Yes ☐ No ☐N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☐ No ☐N/A	
Trip Blank Present:	☐Yes ☐ No ☐N/A	

Comments/ Resolution (use back for additional comments):