

**ASBESTOS SURVEY AND LEAD-CONTAINING PAINT
SCREENING REPORT**

**Dr. Von D. Mizell-Eula Johnson State Park
Boardwalk/Jetty Replacement
6503 North Ocean Drive
Dania Beach, Florida 33004**

GLE Project No.: 20000-23382

Prepared for:

**WGI
2035 Vista Parkway
West Palm Beach, Florida 33411**

December 2020



**1000 NW 65th Street, Suite 300-D
Ft. Lauderdale, Florida 33309
754-223-2697 • Fax 754-223-2937**



December 30, 2020

Mr. S. Ken Widjaja
WGI
2035 Vista Parkway
West Palm Beach, Florida 33411

**RE: Asbestos Survey and Lead-Containing Paint Screening Report
Dr. Von D. Mizell-Eula Johnson State Park
Boardwalk/Jetty Replacement
6503 North Ocean Drive
Dania Beach, Florida 33004**

GLE Project No.: 20000-23382

Dear Mr. Widjaja:

GLE Associates, Inc. (GLE) performed an asbestos-containing materials (ACM) survey and lead-containing paint survey, on December 21, 2020, for the Boardwalk/Jetty Replacement project at Dr. Von D. Mizell-Eula Johnson State Park, located at 6503 North Ocean Drive, in Dania Beach, Florida. The ACM survey and lead-containing paint screening was performed by Mr. Brandon Christensen of GLE. This report outlines the sampling and testing procedures, and presents the results along with our conclusions and recommendations.

GLE appreciates the opportunity to serve as your consultant on this project. If you should have any questions or if we can be of further service, please do not hesitate to call.

Sincerely,
GLE Associates, Inc.

Brandon Christensen
Project Manager

Robert B. Greene, PE, PG, CIH, LEED AP
President Asbestos Consultant, EA-0000009

BSC/PSZ/RBG/el

H:\Work\ASB\20000\23382 WGI - Mizell-Eula State Park, ACM-LCP Survey\Report\ACM LBP - FDEP - Mizell Eula State Park Report.doc

GLE Associates, Inc.

1000 NW 65th Street, Suite 300-D | Ft. Lauderdale, Florida 33309 | 754-223-2697 | Fax: 754-223-2937
Tampa | Orlando | Miami | Jacksonville | Gainesville | Atlanta | Nashville
Architecture AR 0007729 • Engineer RY 5483 • Asbestos ZA 0000034 • Geology PG 1737

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1.0 EXECUTIVE SUMMARY

1.1 INTRODUCTION

The purpose of this project was to identify accessible asbestos-containing materials and lead-containing paint associated with the Boardwalk/Jetty Replacement project at Dr. Von D. Mizell-Eula Johnson State Park, located in Dania Beach, Florida. The asbestos survey and lead-containing paint screening was limited to the boardwalk and sidewalks along fence line and on rock jetty within the scope of work.

The asbestos survey was conducted pursuant to NESHAP (National Emission Standards for Hazardous Air Pollutants) requirements associated with demolition and/or renovation plans. The lead-containing paint screening was performed in general accordance with HUD (Department of Housing and Urban Development) guidelines and applicable EPA (Environmental Protection Agency) guidelines, associated with demolition and/or renovation plans.

The asbestos survey was performed on December 21, 2020 by Mr. Brandon Christensen of GLE, an EPA/AHERA (Environmental Protection Agency/Asbestos Hazard Emergency Response Act) accredited asbestos inspector. The lead-containing paint screening was performed on December 21, 2020 by Mr. Brandon Christensen, an EPA certified LBP Risk Assessor. Personnel Certifications are provided in **Appendix A**.

1.2 STRUCTURAL DESCRIPTION

A summary of the facilities investigated is outlined in the table below.

General	
Facility Type:	Sidewalk, Boardwalk
Construction Date:	Unknown
Exterior	
Floor Support:	Concrete, Wood

2.0 PROCEDURES

2.1 ASBESTOS SURVEY

The survey was performed by visually observing accessible areas of the surveyed structure. EPA/AHERA accredited asbestos inspectors performed the visual observations. After the overall visual survey was completed, representative sampling areas were determined. The surveyor delineated homogeneous areas of suspect materials and samples of each material were obtained in general compliance with OSHA (Occupational Safety and Health Act) and NESHAP regulations. The field surveyor determined sample locations based on previous experience. Both friable and non-friable materials were sampled, as applicable. A friable material is one that can be crushed when dry by normal hand pressure.

Regulated Asbestos-Containing Material (RACM) is defined as (a) Friable asbestos materials, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

Category I and Category II non-friable ACM, as defined by the EPA:

- Category I non-friable ACM means asbestos-containing packings, gaskets, resilient floor covering, asphalt roofing products, and pliable sealants and mastics that are in good condition and not friable containing more than 1 percent asbestos, as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM.
- Category II non-friable ACM means any material, excluding Category I non-friable ACM, containing more than 1 percent asbestos as determined using the methods specified in Appendix E, Subpart E, 40 CFR Part 763 Section 1, PLM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The field surveyor determined sample locations based on previous experience. After completion of the fieldwork, the samples were delivered to Arrowhead Technologies, Inc, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory located in Tampa, Florida, for analysis. Laboratory Certifications are included in **Appendix A**. The results of the laboratory analysis are included in **Appendix B**. The samples were analyzed by Polarized Light Microscopy (PLM) coupled with dispersion staining in general accordance with EPA 600/R-93/116. Utilizing this procedure, the various asbestos minerals (chrysotile, amosite, crocidolite, actinolite, tremolite, and anthophyllite) can be determined. The percentages of asbestos minerals in the samples were visually determined by the microscopist. Please note that the EPA designates all materials containing greater than 1% asbestos as an “asbestos-containing material”.

2.2 LEAD-CONTAINING PAINT SCREENING SAMPLING

It is GLE's understanding that the survey was conducted to provide information needed to comply with 29 CFR Part 1926 "Lead Exposure in Construction; Interim Final Rule" for future demolition and/or renovation activities. The Scope of the "Lead Exposure in Construction; Interim Final Rule" "...applies to all occupational exposure to lead in all construction work in which lead, in any amount, is present in an occupationally related context." Due to the lack of a firm correlation between lead levels in paint and airborne lead levels during construction activities, OSHA has developed task-related triggers that require the implementation of the provisions required in 29 CFR Part 1926. Demolition and/or renovation activities involve tasks covered under this standard.

The limited survey was performed by observing and testing accessible painted component surfaces of the sidewalks. The sampling protocol used in this lead paint survey is a modified version of the survey methodology established by HUD. The protocol was modified to conform to the specific parameters of this project.

After the overall visual survey was completed, an inventory of painted surfaces was developed. The surveyor then subdivided the areas into homogeneous areas of apparent similar paint history.

Sampling of the paint surfaces was performed by collecting representative paint chips. All samples were submitted to EMSL Analytical, Inc., an accredited laboratory recognized under EPA's National Lead Laboratory Accreditation Program (NLLAP), located in Kernersville, North Carolina. These samples were analyzed by EPA Method SW 846 3050B/7000B and the results are reported in percentage of lead by weight of the paint sample (% Wt). Laboratory Certification is provided in **Appendix A**. The results of the laboratory analysis are included in **Appendix C**.

3.0 SAMPLING

3.1 ASBESTOS SURVEY

The results of the asbestos laboratory analysis are summarized in **Table 3.1-1 — Summary of Homogeneous Sampling Areas**, and presents Homogeneous Area Numbers, Homogeneous Material Descriptions, Homogeneous Material Locations, Friability, Asbestos Content, Number of Samples Collected, Approximate Quantity and ACM Category of Material.

TABLE 3.1-1: SUMMARY OF HOMOGENEOUS SAMPLING AREAS
Dr. Von D. Mizell-Eula Johnson State Park
Boardwalk/Jetty Replacement
6503 North Ocean Drive
Dania Beach, Florida 33004

HA #	Homogeneous Material Description	Homogeneous Material Location	Friability F/NF	% Asbestos*	No. of samples collected	Approximate Quantity	ACM Category
M-01	Gray Concrete	Boardwalk	NF	ND	3	NIS	NA
M-02	Gray Concrete	Curb/Jetty Sidewalk	NF	ND	3	NIS	NA
M-03	Gray Sealant	Sidewalk Expansion Joint	NF	ND	3	NIS	NA
M-04	Black Particle Board	Jetty Sidewalk Expansion Joint	NF	ND	3	NIS	NA
M-05	Green Filler Compound	Jetty Sidewalk	NF	ND	3	NIS	NA

ASBESTOS CONTENT Expressed as percent	* = The facility owner has the option of point counting by polarized light microscopy (PLM) those RACM whose asbestos content is less than 10% in order to more accurately determine the asbestos content therein.		
	PC = Results based on Point Count analysis	PLM = Results based on Polarized Light Microscopy analysis	
FRIABILITY	NF = Non-Friable Material	F = Friable Material	
CATEGORY OF MATERIAL	RACM = Regulated asbestos-containing material	CAT. I = Category I Non-friable ACM	CAT. II = Category II non-friable ACM
ABBREVIATIONS:	NA = Not Applicable	ND = None Detected	NIS = Not in Scope

3.2 LEAD-CONTAINING PAINT SCREENING SAMPLING

The results of the lead paint screening laboratory analysis are summarized in **Table 3.2-1 — Summary of Lead-Containing Paint Screening Analytical Results**, and presents Sample Numbers, Locations, Component, Color, Substrate, and lead concentration.

TABLE 3.2-1: SUMMARY OF LEAD-CONTAINING PAINT SCREENING ANALYTICAL RESULTS Dr. Von D. Mizell-Eula Johnson State Park Boardwalk/Jetty Replacement 6503 North Ocean Drive Dania Beach, Florida 33004						
Sample No.	Location	Interior or Exterior	Component	Color	Substrate	Lead Concentration (% by Weight)
PC-01	Jetty Sidewalk	Exterior	Handicap Curb	Blue	Rubber	<0.011
PC-02	Jetty Sidewalk	Exterior	Handicap Curb	White	Rubber	<0.011
Analytical results in indicating lead concentrations above the laboratory method limit of detection are indicated by Bold font. The requirements of the OSHA Lead in Construction Standard 29CFR 1926.62 are invoked if any amount of lead is present in the sample (<u>lead-containing</u>); there is no minimum concentration.						

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 ASBESTOS SURVEY

No asbestos-containing materials were identified in the scope of this survey.

4.2 LEAD-CONTAINING PAINT SCREENING SAMPLING

No paint containing lead concentrations above the laboratory's detection limit was identified in the scope of this survey.

5.0 LIMITATIONS AND CONDITIONS

As a result of previous renovations, there may be hidden materials, such as floor tile, sheet vinyl flooring, insulation, etc. These materials may be found in various areas hidden under existing flooring materials or in wall cavities. Any materials found during construction activities, either not addressed in this survey report, or similar to the ACM identified in this survey report should be assumed to be ACM until sampling and analysis documents otherwise.

Because of the hidden nature of many building components (i.e. within mechanical chases), it may be impossible to determine if all of the suspect building materials have been located and subsequently tested. Destructive testing in some instances is not a viable option. We cannot, therefore, guarantee that all potential ACM has been located. For the same reasons, estimates of quantities and/or conditions are subject to readily apparent situations, and our findings reflect this condition. We do warrant, however, that the investigations and methodology reflect our best efforts based upon the prevailing standard of care in the environmental industry.

The information contained in this report was prepared based upon specific parameters and regulations in force at the time of this report. The information herein is only for the specific use of the client and GLE. GLE accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, unless prior written authorization has been obtained from GLE.

APPENDIX A
Personnel and Laboratory Certifications



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT

THE ASBESTOS BUSINESS ORGANIZATION HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

GLE ASSOCIATES INC

ROBERT BLAIR GREENE
5405 CYPRESS CENTER DRIVE
SUITE 110
TAMPA FL 33609

LICENSE NUMBER: ZA0000034

EXPIRATION DATE: NOVEMBER 30, 2021

Always verify licenses online at MyFloridaLicense.com



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Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT

THE ASBESTOS CONSULTANT - ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

GREENE, ROBERT BLAIR

GLE ASSOCIATES INC
5405 CYPRESS CENTER DR
SUITE 110
TAMPA FL 33609

LICENSE NUMBER: EA0000009

EXPIRATION DATE: NOVEMBER 30, 2022

Always verify licenses online at MyFloridaLicense.com



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Retra

CERTIFICATE of training.

Brandon Christensen

Has successfully completed the requisite training for Asbestos
Accreditation as required by TSCA Title II.

Inspector Asbestos Refresher Course FL2847

Online

Course Location

RTS1590155164274

Certificate ID

Completion Date: 22nd May 2020

Completion Date

Expiration Date: 22nd May 2021

Expiration Date


Course Administrator

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200703-0

Arrowhead Technologies, L.L.C.
Clearwater, FL

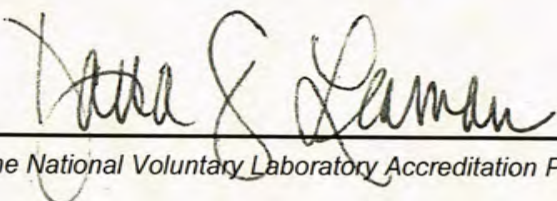
*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2020-01-01 through 2020-12-31

Effective Dates



Dana S. Laman
For the National Voluntary Laboratory Accreditation Program

United States Environmental Protection Agency

This is to certify that

GLE Associates, Inc.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires March 03, 2021

LBP-2060-1

Certification #

January 25, 2018

Issued On



Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch

The Environmental Institute

Brandon Christensen

Social Security Number - 4647

GLE Associates, Inc. - 5405 Cypress Center Drive, Suite 110, Tampa, FL 33609

Has completed 8 hours of coursework and satisfactorily passed the hands-on skills assessment and an examination that meets training criteria in accordance with requirements for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities as regulated by Georgia DNR/EPD Chapter 391-3-24 and U. S. EPA TSCA 40 CFR Part 745 for the refresher course titled

Lead Risk Assessor Refresher

December 17, 2020

Course Date

1959

Certificate Number

December 17, 2020

Examination Date

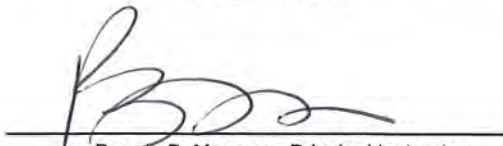
December 16, 2022

Georgia Expiration Date

December 16, 2023

EPA Expiration Date





Bennie B. Maurras - Principal Instructor



David W. Hogue - Training Manager

(Approved by the ABIH Certification Maintenance Committee for 1 CM point - Approval #11-584)

TEI - 1395 S. Marietta Parkway SE - Building 100, Suite 124 - Marietta, GA 30067

Phone: 770-427-3600 - Website: www.tei-atl.com

(State of Georgia Accredited - Certification No. 20-0799-006SR - September 21, 1999)



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

10801 Southern Loop Blvd., Pineville, NC 28134

Laboratory ID: LAP-192283

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

☒	INDUSTRIAL HYGIENE	Accreditation Expires: September 01, 2022
☒	ENVIRONMENTAL LEAD	Accreditation Expires: September 01, 2022
☒	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: September 01, 2022
☐	FOOD	Accreditation Expires:
☐	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

10801 Southern Loop Blvd., Pineville, NC 28134

Laboratory ID: LAP-192283

Issue Date: 08/31/2020

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 11/01/2013

Component, parameter or characteristic tested	Technology sub-type/Detector	Method	Method Description (for internal methods only)
Paint	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Settled Dust by Wipe	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Soil	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A

A complete listing of currently accredited ELLAP laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

APPENDIX B
Asbestos Analytical Results and Chain of Custody

**ARROWHEAD**
TECHNOLOGIES, LLC**PLM REPORT SUMMARY**

3151 San Bernadino St.
Clearwater, Florida 33759
813-679-0720 / mhall005@tampabay.rr.com

NVLAP Lab Code 200703-0

Client :	GLE Associates	Lab Set No. :	008712
Project :	Mizell-Eula State Park	AT Job No. :	20-8712
Client Project No.:	20000-23382	Report Date :	12/28/2020
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	12/21/2020
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

Page 1 of 3

On 12/23/2020, fifteen (15) bulk material samples were submitted by John Simmons for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
008712-001	Gray Concrete/Board Walk M-01A	None Detected-Concrete
008712-002	Gray Concrete/Board Walk M-01B	None Detected-Concrete
008712-003	Gray Concrete/Board Walk M-01C	None Detected-Concrete
008712-004	Gray Concrete Curb/Jetty Sidewalk M-02A	None Detected-Concrete
008712-005	Gray Concrete Curb/Jetty Sidewalk M-02B	None Detected-Concrete
008712-006	Gray Concrete Curb/Jetty Sidewalk M-02C	None Detected-Concrete
008712-007	Gray Sealant/Sidewalk Expansion Joint M-03A	None Detected-Gray Expansion Joint
008712-008	Gray Sealant/Sidewalk Expansion Joint M-03B	None Detected-Gray Expansion Joint

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.

**ARROWHEAD**
TECHNOLOGIES, LLC**PLM REPORT SUMMARY**

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Client Project No.:	20000-23382	Report Date :	12/28/2020
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	12/21/2020
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

Page 2 of 3

On 12/23/2020, fifteen (15) bulk material samples were submitted by John Simmons for asbestos analysis by PLM/DS.
Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
008712-009	Gray Sealant/Sidewalk Expansion Joint M-03C	None Detected-Gray Expansion Joint
008712-010	Black Particle Board/Jetty Sidewalk M-04A	None Detected-Black Particle Board
008712-011	Black Particle Board/Jetty Sidewalk M-04B	None Detected-Black Particle Board
008712-012	Black Particle Board/Jetty Sidewalk M-04C	None Detected-Black Particle Board
008712-013	Concrete Filler Compound/Jetty Sidewalk M-05A	None Detected-Green Filler Material
008712-014	Concrete Filler Compound/Jetty Sidewalk M-05B	None Detected-Green Filler Material
008712-015	Concrete Filler Compound/Jetty Sidewalk M-05C	None Detected-Green Filler Material

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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NVLAP Lab Code 200703-0

Client :	GLE Associates	Lab Set No. :	008712
Project :	Mizell-Eula State Park	AT Job No. :	20-8712
Client Project No.:	20000-23382	Report Date :	12/28/2020
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	12/21/2020
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

Page 3 of 3

SCOPE OF THIS REPORT

These samples were obtained as a part of a building survey; this report is only intended to be used as a part of the survey report issued by the surveyor. This report explains the laboratory analysis and results. The surveyor's report explains the sampling protocol used, when the samples were obtained, the location(s) of the samples, where the materials were observed in the building, quantities of materials observed, condition of the materials and the extent of his/her survey. Sample locations and material descriptions are given by the surveyor on the chain of custody but included here (possibly abbreviated) only as a convenience for the reader.

This report may not be reproduced without written permission of Arrowhead and must be reproduced in full.

STATEMENT OF LABORATORY ACCREDITATION

The samples were analyzed in general accordance with the procedures outlined in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, and the Interim Method for the Determination of Asbestos in Bulk Insulation Samples, EPA 600/M4-82-020. The results of each bulk sample relate only to the material tested and the results shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Floor tile and other resinously bound materials, when analyzed by the EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Arrowhead recommends utilizing alternative methods of identification, including Transmission Electron Microscopy.

Specific questions concerning bulk sample results shall be directed to the Laboratory Director.

Analyst : Monte Hall, P.G.

Laboratory Director : Monte Hall, P.G.
Florida Registration No. 1658

Approved Signatory :

8712

CHAIN OF CUSTODY/SAMPLE TRANSMITTAL FORM

GLE Associates, Inc.
1000 NW 65th Street, Suite 300-D
Ft. Lauderdale, FL 33309
PHONE: (954) 968-6414 FAX: (954) 968-6090

CLIENT:	WGI	LAB -
PROJECT #:	20000-23382	
PROJECT:	Mizell-Eula State Park	
LABORATORY SENT TO:	Arrowhead Technologies, Inc.	
DATE:	12/21/2020	

SAMPLE INFORMATION

SAMPLE #	DESCRIPTION	SAMPLE #	DESCRIPTION
M-01 ABC	Gray Concrete / Board Walk	M-04 ABC	Black Particle Board / Jetty Sidewalk
M-02 ABBC	Gray Concrete Curb / Jetty Sidewalk	M-05 ABC	Concrete Filler Compound / Jetty Sidewalk
M-03 ABC	Gray Sealant / Sidewalk Expansion Joint		

IMPORTANT: TOTAL NUMBER OF SAMPLES SUBMITTED	15
IMPORTANT: POSITIVE STOP ANALYSIS	Yes
IMPORTANT: E-MAIL RESULTS TO	Jsimmons/bchristensen

NOTE:

Turnaround time starts at receipt by lab and does not include weekend or holidays.

Select Turnaround Time

☐ 3 hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☒ 3 Day	☐ 4 Day
---------------------------------	---------------------------------	----------------------------------	----------------------------------	---	--------------------------------

REPORT RESULTS TO THE ADDRESS ABOVE

CHAIN OF CUSTODY: GLE ASSOCIATES, INC.		CHAIN OF CUSTODY: LABORATORY	
PACKAGED BY: Brandon Christensen <i>[Signature]</i>		SAMPLES RECEIVED BY:	
DATE PACKAGED: 12/21/2020		DATE:	
METHOD OF TRANSMITTAL: FEDEX		TIME:	
TRANSMITTED BY: ELongo		CONDITION OF PACKAGED SAMPLES:	
CHAIN OF CUSTODY: RETURNED TO GLE ASSOCIATES, INC.			
RECEIVED BY: <i>[Signature]</i>		DATE: 12/23/2020	
INVENTORIED BY:		DATE:	
REPACKAGED AND SEALED BY:		DATE:	
PAGE: OF			

APPENDIX C
Lead-Containing Paint Screening Analytical Results
and Chain of Custody

**EMSL Analytical, Inc.**

10801 Southern Loop Blvd, Pineville, NC 28134

Phone/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com>charlottelab@emsl.com

EMSL Order: 412010822
CustomerID: GLEA51G
CustomerPO: 20000-23399
ProjectID:

Attn: **John Simmons**
GLE Associates, Inc.
1000 N.W. 65th Street
Suite 300-D
Fort Lauderdale, FL 33309

Phone: (754) 223-2693
Fax: (954) 968-6090
Received: 12/23/2020 11:45 AM
Collected: 12/21/2020

Project: **WGI - Mizall-Eula State Park - Boardwalk/ 20000-23399****Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
PC-01	412010822-0001	12/21/2020	12/26/2020	.1869 g	<0.011 % wt
Site: Jetty Sidewalk Handicap Curb (Blue)					
PC-02	412010822-0002	12/21/2020	12/26/2020	.2010 g	<0.010 % wt
Site: Jetty Sidewalk Handicap Curb (White)					

Kyle Collins, Technical Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC AIHA-LAP, LLC - ELLAP 192283

Initial report from 12/28/2020 08:26:10

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

PHONE: ()

FAX: ()

412010822

Company: GLE Associates, Inc.		EMSL-Bill to: ☐ Same ☐ Different If Bill to is Different note instructions in Comments**	
Street: 1000 NW 65th Street, Suite 300-D		Third Party Billing requires written authorization from third party	
City: Ft. Lauderdale	State/Province: FL	Zip/Postal Code: 33309	Country: USA
Report To (Name): jsimmons/elongo/bchristensen		Telephone #:	
Email Address: @gleassociates.com		Fax #:	Purchase Order:
Project Name/Number: WGI- Mizall-Eula State Park-Boardwalk/20000-23399		Please Provide Results: ☐ Fax ☐ Email	
U.S. State Samples Taken: Florida		CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
☐ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide			
Matrix	Method	Instrument	Reporting Limit
Chlps ☒ % by wt. ☐ mg/cm ² ☐ ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter
Wipe* ☐ ASTM non ASTM ☐	SW846-7000B	Flame Atomic Absorption	10 µg/wipe
*if no box checked, non-ASTM Wipe assumed	SW846-6010B or C	ICP-OES	1.0 µg/wipe
TCPLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)
Wastewater Unpreserved ☐ Preserved with HNO ₃ pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)
Drinking Water Unpreserved ☐ Preserved with HNO ₃ pH < 2 ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter
Other:			
Name of Sampler: Brandon Christensen		Signature of Sampler:	
Sample #	Location	Volume/Area	Date/Time Sampled
PC-01	Jetty Sidewalk Handicap Curb (Blue)	--	12/21/20
PC-02	Jetty Sidewalk Handicap Curb (White)	--	12/21/20
Client Sample #s	-		Total # of Samples: 2
Relinquished (Client):	Date: 12/21/20	Time:	
Received (Lab):	Date: 12/23/20	Time:	1145 AM FK
Comments:			

7960 1389 6931

APPENDIX D

Photographs



Upper Photo: M-01 Gray Concrete
Lower Photo: M-02 Gray Concrete

Photograph Date:
December 21, 2020

Prepared By:
GLE Associates, Inc.



Dr. Von D. Mizell-Eula Johnson
State Park

Job No.
20000-23382

Figure
1



Upper Photo: M-03 Gray Sealant

Lower Photo: M-04 Black Particle Board

Photograph Date:
December 21, 2020

Prepared By:
GLE Associates, Inc.



GLE

Dr. Von D. Mizell-Eula Johnson
State Park

Job No.
20000-23382

Figure
2



Upper Photo: M-05 Concrete Filler

Lower Photo: PC-01/PC-02 Jetty
Sidewalk Handicap Curb Blue/White

Photograph Date:
December 21, 2020

Prepared By:
GLE Associates, Inc.



GLE

Dr. Von D. Mizell-Eula Johnson
State Park

Job No.
20000-23382

Figure
3