

ASBESTOS CONTAINING MATERIALS AND LEAD BASED PAINT SURVEY



St. Andrews State Park Survey
Panama City Beach, Bay County, Florida

PREPARED FOR:

Mr. Camron Snipes
Kimley-Horn
2615 Centennial Boulevard, Suite 102
Tallahassee, Florida 32308

NOVA Project Number: 10111-3020143

December 28, 2020



December 28, 2020

KIMLEY-HORN

2615 Centennial Boulevard, Suite 102
Tallahassee, Florida 32308

Attention: Mr. Cameron Snipes

Subject: Pre-Demolition Asbestos Containing Materials and Lead Based Paint
Survey Report
ST. ANDREWS STATE PARK SURVEY
Panama City Beach, Bay County, Florida
NOVA Project Number 10111-3020143

Dear Mr. Snipes:

NOVA Engineering and Environmental LLC (NOVA) has completed the Pre-Demolition Asbestos Containing Materials (ACMs) and Lead-Based Paint Survey for four (4) buildings within St. Andrews State Park in Bay County, Florida (Subject Property). We appreciate your selection of NOVA and for the opportunity to be of service on this project. Please feel free to contact us if you have any questions or if we may be of further assistance.

Sincerely,

NOVA Engineering and Environmental LLC

A handwritten signature in blue ink, appearing to read "Daniel T. McGimsey". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Daniel T. McGimsey, BSG
Environmental Staff Professional
Accredited Asbestos Inspector
USEPA Licensed Lead Inspector

A handwritten signature in black ink, appearing to read "Larry G. Schmaltz". The signature is more stylized and less cursive than the one on the left, with a prominent horizontal line at the end.

Larry G. Schmaltz, P.E., G.C.
Florida Licensed Asbestos Consultant (#AX009)
USEPA Licensed Lead Inspector
USEPA Licensed Lead Risk Assessor

TABLE OF CONTENTS

1.0	SUMMARY.....	1
1.1	ASBESTOS.....	1
1.2	LEAD-BASED PAINT.....	2
2.0	INTRODUCTION.....	4
2.1	DESCRIPTION OF SUBJECT PROPERTY	4
2.2	PURPOSE.....	4
2.3	LIMITATIONS	4
2.4	USER RELIANCE.....	5
3.0	ASBESTOS CONTAINING MATERIALS AND LEAD BASED PAINT.....	6
3.1	FIELD AND LABORATORY SERVICES.....	6
3.2	ASBESTOS	7
3.3	ASBESTOS ABATEMENT	8
3.4	LEAD-BASED PAINT.....	8
3.5	LEAD BASED PAINT ABATEMENT.....	8

LIST OF APPENDICES

APPENDIX A – Location Map
APPENDIX B – Laboratory Data
APPENDIX C – Qualifications of Conclusions
APPENDIX D – Certifications

1.0 SUMMARY

A summary of our findings is presented below. This summary is provided for convenience and should not be substituted for review of the full report, including all attachments as provided herein. All four structures are located within St. Andrews State Park.

1.1 ASBESTOS

During this study, forty-five (45) samples of building materials, including but not limited to, ceiling materials, flooring materials, drywall and caulking materials were collected by NOVA and analyzed using Polarized Light Microscopy (PLM), with **two (2)** of the analyzed homogeneous sample layers indicating asbestos containing materials (ACM).

- **Larger Entrance Guard Shack HSA 3: Greenish floor tile black mastic**
- **Camp Store Building and Small Shed HSA 3: White Cementitious siding material**

Following is a table containing a summary of the samples that were collected during the survey:

Smaller Entrance Guard Shack

HSA	Sample Number	Material Type & Location	PLM Analysis	Estimated Quantity	*EPA Cat.
1	(1-3)	Roofing material	ND	20 Square Feet	N/A
2	(1-3)	Concrete slab material	ND	50 Square Feet	N/A

Larger Entrance Guard Shack

HSA	Sample Number	Material Type & Location	PLM Analysis	Estimated Quantity	*EPA Cat.
1	(1-3)	Window Caulking	ND	5 Square Feet	N/A
2	(1-3)	Roofing material	ND	500 Square Feet	N/A
3	(1-3)	Greenish floor tile and black mastic	5% Chr, Black Mastic	300 Square Feet	NF-I
4	(1-3)	Carpet glue	ND	300 Square Feet	N/A
5	(1-3)	Ceiling fiberboard with white surfacing material	ND	500 Square Feet	N/A
6	(1-3)	Concrete slab	ND	600 Square Feet	N/A

Old pump station building behind campsite #13

HSA	Sample Number	Material Type & Location	PLM Analysis	Estimated Quantity	*EPA Cat.
1	(1-2)	Concrete masonry material	ND	500 Square Feet	N/A
2	(1-3)	Slab on grade	ND	400 Square Feet	N/A

Camp Store building and small shed

HSA	Sample Number	Material Type & Location	PLM Analysis	Estimated Quantity	*EPA Cat.
1	(1-3)	Roofing material	ND	700 Square Feet	N/A
2	(1-2)	Brown vinyl tile at entrance	ND	100 Square Feet	N/A
3	(1-3)	Cementitious siding on the exterior of the eastern shed	20% Chr, Cement board	200 Square Feet	NF-II
4	(1-2)	White linoleum type flooring in closet and under carpet	ND	500 Square Feet	N/A
5	(1-3)	Drop down ceiling	ND	500 Square Feet	N/A
6	(1-3)	Slab on grade	ND	500 Square Feet	N/A

Note: Neither NOVA nor the client will be held responsible for anyone's use of the estimated quantity. It is suggested that anyone responsible for the project prepare their own quantity estimates.

TABLE LEGEND:

HSA:	Homogenous Sampling Area	QUANTITY ESTIMATE:	Estimated Quantity of HSA
PLM ANALYSIS:	Chr. = Chrysotile Asbestos Ams. = Amosite Asbestos ND = No Asbestos Detected	EPA CATEGORY:	F = Friable NF-I = Category I Non-Friable NF-II = Category II Non-Friable N/A = Not Applicable

Polarized Light Microscopy (PLM) is commonly used for bulk asbestos identification, but it can identify non-asbestos fibers as asbestos. In an effort to eliminate false positives (and costly unnecessary abatement), samples reported as containing between 1% and 10% asbestos can be analyzed/verified by point count. The alternative is to assume the subject material to be asbestos containing. The Occupational Safety and Health Administration (OSHA) Asbestos Standard for Construction Industry 29 CFR 1926.1101 regulates workplace exposure to asbestos. OSHA does not define Asbestos Containing Material on asbestos content. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc). The OSHA standard classifies construction and maintenance activities, which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work. In addition to worker protection, the means and methods necessary for ACM abatement are the sole responsibility of the abatement contractor.

A complete list of suspected ACM samples obtained is also shown in the laboratory report (included in **Appendix B**).

1.2 LEAD-BASED PAINT

During this study, **seven (7)** samples of building materials, including walls, door components, window components, floors and exterior components were collected and obtained by NOVA and evaluated by an AIHA-LAP accredited lab using Flame Atomic

Absorption Spectroscopy (FAAS), with **none** of the surfaces identifying positive as containing lead-based paint above the federal guideline of 1.0 mg/cm² in paint. A complete list of all sample readings taken is shown in this report (included in **Appendix B**).

Following is a table containing a summary of all LBP readings from the buildings:

Sample Number	Material Type & Location*	Concentration	Classification
S-1	Exterior White Paint – Large Guard Shack	0.0025 mg/cm ²	Negative
S-2	Exterior Gray Paint – Large Guard Shack	0.0025 mg/cm ²	Negative
S-3	Exterior Blue Paint – Pump building behind campsite 13	0.0713 mg/cm ²	Negative
S-4	Exterior White Paint – Camp store	0.0025 mg/cm ²	Negative
S-5	Exterior Gray Paint – Camp store	0.00786 mg/cm ²	Negative
S-6	Exterior White Paint – Boat Rentals building beside boat ramp	0.0025 mg/cm ²	Negative
S-7	Exterior Gray Paint – Boat Rentals building beside boat ramp	0.0025 mg/cm ²	Negative

* All similar materials throughout the Subject Property with matching paint schemes are designated Homogenous Areas. See **Appendix A** for Room Locations.

2.0 INTRODUCTION

2.1 DESCRIPTION OF SUBJECT PROPERTY

This Survey consists of four (4) structures. The first building is a one-story guard building located at the entrance to St. Andrews State Park. The second structure surveyed in the park is located to the south of campsite 13 and is approximately 500 SF. The third structure is the camp store located south of the boat access ramp within the park with an approximate area of 1,000 SF. The fourth structure within the park is the boat rentals building located just west of the boat ramp close to the campground.

2.2 PURPOSE

As requested by Mr. Brennon Clayton of **Kimley-Horn** (CLIENT), the Pre-Demolition Asbestos Containing Materials (ACMs) Survey and Lead Based Paint (LBP) Inspection was performed in an effort to identify ACMs and LBP at the Subject Property. This work has been performed in general accordance with NOVA Proposal Number 017-30207353 dated March 12, 2020, applicable state and federal regulations, and routine industry practice.

ACM sampling was performed in general accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines and ASTM E2356-14, "Standard Practice for Comprehensive Building Asbestos Survey" as a Baseline Survey.

LBP testing was performed in general accordance with methodology detailed in the 2012 Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards, Chapter 7, Lead-Based Paint Inspection, as amended in July of 2012.

2.3 LIMITATIONS

NOVA has performed the Pre-Demolition Asbestos Containing Materials Survey and Lead Based Paint Inspection, which is a limited inquiry into a property's environmental status, with respect to asbestos containing materials and lead based paint containing materials, and is not sufficient to discover every potential source of ACMs and LBPs at the property to be evaluated. No survey can wholly eliminate uncertainty regarding the potential ACMs and LBPs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for ACMs and LBPs in connection with a property. The level of inquiry is variable. Not every property will warrant the same level of assessment for ACMs and LBPs. Consistent with good commercial or customary practices, the appropriate level of assessment is guided by the type of property subject to assessment, the intended use of the property,

the expertise and risk tolerance of the CLIENT, and the information developed over the course of the assessment.

NOVA's findings, opinions, conclusions and recommendations are based on information obtained through visual assessment of surficial conditions in readily accessible areas. It is possible that additional ACMs and LBPs exist or may subsequently become known that may impact or change the assessment after NOVA's services are complete.

NOVA's assessment represents our professional opinion, only. Therefore, NOVA cannot, under any circumstances, make a statement of warranty or guarantee, expressed or implied, that ACMs and LBPs are limited to those that are discovered while we were performing the survey.

2.4 USER RELIANCE

NOVA's Pre-Demolition Asbestos Containing Materials Survey and Lead Based Paint Inspection, along with the findings and conclusions contained in the report, either in completed form, summary form, or by extraction, is prepared, and intended, for the sole use of **Kimley-Horn** (CLIENT) and therefore may not contain sufficient information for other purposes or parties. The CLIENT is the only intended beneficiary of this report. The contents of NOVA's report will continue to be the property of NOVA. NOVA's report may not be disclosed to, used by, or relied upon by, any person or entity other than the CLIENT without the express written consent of NOVA.

Authorization for disclosure to a third party or authorization for third-party reliance on a final report of any report will be considered by NOVA upon the written request of the CLIENT. NOVA reserves the right to deny authorization to allow disclosure or reliance of NOVA's report to third parties.

3.0 ASBESTOS CONTAINING MATERIALS and LEAD BASED PAINT

3.1 FIELD AND LABORATORY SERVICES

Mr. Daniel McGimsey, a NOVA professional and federal and state certified asbestos inspector/ United States Environmental Protection Agency (USEPA) certified Lead-Based Paint Inspector, performed the field work for the Pre-Demolition Asbestos Containing Materials and Lead-Based Paint Survey for the Subject Property on December 11, 2020.

3.1.1 ASBESTOS CONTAINING MATERIALS SAMPLING

The building areas were visually assessed by NOVA to identify suspect ACMs, which were then grouped into three categories according to their intended use:

- **Surfacing Materials** such as sprayed-on or troweled fireproofing, acoustical and decorative insulation, textured “popcorn” finishes, paint, stucco, etc.
- **Thermal System Insulation** (TSI), such as pipe, boiler and storage tank insulation, and insulation on ducts, pumps, heat exchangers, and other equipment.
- **Miscellaneous Materials**, such as floor and ceiling tiles, wallboard, asbestos-cement board, siding and other building materials that did not fall into one of the previously mentioned categories.

Where applicable, materials with similar texture, color and general appearance were considered homogeneous for sampling purposes, including visually similar materials on different floors. NOVA’s assessment also included touching representative samples to determine friability, a mechanical classification defined as whether a material can be crumbled, pulverized, or reduced to powder by hand pressure.

Bulk samples were subsequently obtained in general accordance with the AHERA (40 CFR 763.86, Sampling) and ASTM E2356-10 procedures. The samples were placed in appropriate containers, and the containers sealed and labeled with a unique identification number. The samples were subsequently transported (following routine industry practices and chain-of-custody procedures) to Arrowhead Technologies, LLC for analysis.

The ACM samples were analyzed for asbestos using Polarized Light Microscopy (PLM) methods in accordance with EPA Method 600/R-93/116. Copies of the complete asbestos laboratory report and chain-of custody are included in Appendix B.

Using the results of the laboratory analysis and NOVA's visual assessment, the asbestos containing building materials can be further categorized into three groups:

- **Friable ACM** – Any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix C, Subpart F, 40 CFR part 763 Section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
- **Category I Nonfriable ACM** - Asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent (1%) asbestos as determined using the method specified in Appendix C, Subpart F, 40 CFR part 763, Section 1, Polarized Light Microscopy.
- **Category II Nonfriable ACM** - Any material, excluding Category I Nonfriable ACM, containing more than one percent (1%) asbestos as determined using the methods specified in Appendix C, Subpart F, 40 CFR part 763, Section 1, Polarized Light Microscopy that, when dry, *cannot* be crumbled, pulverized, or reduced to powder by hand pressure.

A complete list of suspected ACM samples obtained is shown in the laboratory report (included in **Appendix B**).

3.1.2 LEAD-BASED PAINT TESTING

This lead inspection methodology is based on Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (Department of Housing and Urban Development [HUD], second edition, July 2012

A complete list of LBP samples taken is shown in the field report (included in **Appendix B**).

3.2 ASBESTOS

During this study, forty-five (45) samples of building materials, including but not limited to, ceiling materials, flooring materials, drywall, gaskets, insulation, chalkboard, and mastic materials were collected by NOVA and analyzed using Polarized Light Microscopy (PLM), with **two (2)** of the analyzed homogeneous sample layers indicating asbestos containing materials (ACM). The first material is a black mastic material located in the larger entrance guard building at the entrance to the park, underneath green floor tile. This material is a category I non friable ACM, however it is unlikely to become friable during demolition. The second material is cementitious exterior

paneling located on the camp store storage shed. This material is a category II non friable ACM, however it is likely to become friable during demolition.

3.3 ASBESTOS ABATEMENT

Any ACMs identified during the demolition process must be handled in accordance with the applicable OSHA and FDEP requirements. Prior to abatement, demolition, or renovation activities, a written ten (10) working day notification must be submitted to the Florida Department of Environmental Protection, Northwest District. Notifications that do not meet the ten (10) day requirement or are incomplete are considered “improper” and may result in enforcement proceedings. The mastic material is unlikely to become friable during demolition and may remain in place utilizing a wet demolition, however the cementitious siding is likely to become friable during demolition, therefore a licensed asbestos contractor must abate this material prior to demolition. Asbestos abatement contractors must maintain current licensing as required by the Florida Department of Business & Professional Regulation (DBPR) and local jurisdictions for the removal, transportation, disposal, or any other asbestos regulated activity. Please be advised that a copy of this report must be onsite during the renovation or demolition of the building, in the event of a regulatory inspection.

3.4 Lead-Based Paint

During this study, seven (7) samples of building materials were collected and obtained by NOVA and evaluated by an AIHA-LAP accredited lab using Flame Atomic Absorption Spectroscopy (FAAS), with **none** of the surfaces identifying positive as containing lead-based paint above the federal guideline of 1.0 mg/cm². A complete list of all samples taken is shown in this report (included in Appendix B).

3.5 Lead Based Paint Abatement

Lead exposure is regulated by OSHA (29 CFR 1910.1025, Toxic and Hazardous Substances, Lead) and OSHA (29 CFR 1926.62, Occupational Health and Environmental Controls, Lead).

Lead, in paint, dust, and soil, is regulated by the USEPA (40 CFR 745, Identification of Dangerous Levels of Lead) and HUD (29 CFR Part 35, Subpart B-M, Lead Safe Housing Rule). There are no state or local regulations in Florida for LBP management.

The results of this inspection indicate that there is **no** lead in amounts greater than or equal to 1.0 mg/cm² in paint found on one or more building components, using the inspection protocol in Chapter 7 of the ‘Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing’ (second edition, July 2012).

(See section IV of chapter 7 of the HUD *Guidelines for the Evaluation and Control of*

Lead-Based Paint Hazards in Housing for further details; see www.hud.gov/lead.)

(2012 HUD Guidelines, Second Edition, July)

APPENDIX A

Location Map



Scale: Not To Scale

Date Drawn: December 28, 2020

Drawn By: D. McGimsey

Checked By: L. Schmaltz



17612 Ashley Drive
Panama City Beach, FL 32413
850-249-6682

LOCATION MAP

St. Andrews State Park ACM & LBP Survey
Panama City Beach, Bay County, Florida
NOVA Project Number 10111-3020143

APPENDIX B

Laboratory Data

**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 :	Nova	Lab Set No. :	008683
Project :	St Andrews State Park	AT Job No. :	20-8683
Client Project No.:	10111-3020143	Report Date :	12/18/2020
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	12/11/2020
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

Page 1 of 6

On 12/15/2020, forty-five (45) bulk material samples were submitted by Daniel McGimsey 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
008683-001	Roofing Material HA1	None Detected-Black Roofing Shingle
008683-002	Roofing Material HA1	None Detected-Black Roofing Shingle
008683-003	Roofing Material HA1	None Detected-Black Roofing Shingle
008683-004	Concrete Slab HA2	None Detected-Concrete
008683-005	Concrete Slab HA2	None Detected-Concrete
008683-006	Concrete Slab HA2	None Detected-Concrete
008683-007	WIndow Caulking HA3	None Detected-White Caulking
008683-008	WIndow Caulking HA3	None Detected-White Caulking
008683-009	WIndow Caulking HA3	None Detected-White Caulking
008683-010	Roofing Material HA4	None Detected-Black Roofing Shingle
008683-011	Roofing Material HA4	None Detected-Black Roofing Shingle
008683-012	Roofing Material HA4	None Detected-Black Roofing Shingle

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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Page 2 of 6

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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
008683-013	Greenish Floor Tile HA5	None Detected-Green Floor Tile 5% Chrysotile-Black Mastic
008683-014	Greenish Floor Tile HA5	Not Analyzed
008683-015	Greenish Floor Tile HA5	Not Analyzed
008683-016	Carpet Glue HA6	None Detected-Yellow Mastic
008683-017	Carpet Glue HA6	None Detected-Yellow Mastic
008683-018	Carpet Glue HA6	None Detected-Yellow Mastic
008683-019	Ceiling Fiberboard w/ Popcorn Text HA7	None Detected-Popcorn Ceiling Treat. None Detected-Tan Paper Backing None Detected-White Drywall Material
008683-020	Ceiling Fiberboard w/ Popcorn Text HA7	None Detected-Popcorn Ceiling Treat. None Detected-Tan Paper Backing None Detected-White Drywall Material
008683-021	Ceiling Fiberboard w/ Popcorn Text HA7	None Detected-Popcorn Ceiling Treat. None Detected-Tan Paper Backing None Detected-White Drywall 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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EPA Method 600/R-93/116 / EPA Method 600/M4-82-020

Page 3 of 6

On 12/15/2020, forty-five (45) bulk material samples were submitted by Daniel McGimsey 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
008683-022	Concrete Slab HA8	None Detected-Concrete
008683-023	Concrete Slab HA8	None Detected-Concrete
008683-024	Concrete Slab HA8	None Detected-Concrete
008683-025	Concrete Masonry HA9	None Detected-Concrete
008683-026	Concrete Masonry HA9	None Detected-Concrete
008683-027	Slab on Grade HA10	None Detected-Concrete
008683-028	Slab on Grade HA10	None Detected-Concrete
008683-029	Slab on Grade HA10	None Detected-Concrete
008683-030	Roofing Material HA11	None Detected-Black Roofing Shingle
008683-031	Roofing Material HA11	None Detected-Black Roofing Shingle
008683-032	Roofing Material HA11	None Detected-Black Roofing Shingle
008683-033	Brown Vinyl Tile HA12	None Detected-Brown Vinyl Flooring

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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Page 4 of 6

On 12/15/2020, forty-five (45) bulk material samples were submitted by Daniel McGimsey 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
008683-034	Brown Vinyl Tile HA12	None Detected-Brown Vinyl Flooring
008683-035	Cementitious Siding HA13	20% Chrysotile-Grey Cement Board
008683-036	Cementitious Siding HA13	Not Analyzed
008683-037	Cementitious Siding HA13	Not Analyzed
008683-038	White Lin-T-Floor HA14	None Detected-White Vinyl Flooring None Detected-Gray Backing
008683-039	White Lin-T-Floor HA14	None Detected-White Vinyl Flooring None Detected-Gray Backing
008683-040	Drop Down Ceiling HA15	None Detected-Ceiling Panel
008683-041	Drop Down Ceiling HA15	None Detected-Ceiling Panel
008683-042	Drop Down Ceiling HA15	None Detected-Ceiling Panel
008683-043	Slab on Grade HA16	None Detected-Concrete
008683-044	Slab on Grade HA16	None Detected-Concrete

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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On 12/15/2020, forty-five (45) bulk material samples were submitted by Daniel McGimsey 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
008683-045	Slab on Grade HA16	None Detected-Concrete

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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Client Project No.:	10111-3020143	Report Date :	12/18/2020
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	12/11/2020
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

Page 6 of 6

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.

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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 :

8683

10 of 12

Asbestos Chain of Custody Record

Company **NOVA Engineering and Environmental**
 Address **17612 Ashely Drive**
 City / State / Zip **Panama City Beach / Florida / 32413**
 Phone **850-381-9565** FAX **850-249-6683** Email **dmcgimsey@usanova.com**
 Client / Owner: **Kimley-Horn and Associates, Inc.**
 Project and/or Job Number: **10111-3020140**
 Project Address: **St. Andrews State Park**

Normal 3 Day ☒ Next Day ☐ Same Day ☐ Immediate ☐
 Stop First Positive: Yes ☒ No ☐ (*Receive Cut Off Time: 2pm)
 Date: **12-11-20** Contact: **Daniel McGimsey**
 Phone: **850-381-9565** FAX: **dmcgimsey@usanova.com & LABREPORTSENV@USANOVA.COM**

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
1 ✓	(13)	Roofing Material	Roof	Entrance station	200			
2 ✓	(13)	Concrete slab	G-shock	"	50			
3 ✓	(13)	Window caulking	"	Entrance station	5			
4 ✓	(13)	Roofing Mat.	B	larger guard-shack	500			
5 ✓	(13)	Greenish Floortile	Roof	"	300			
6 ✓	(13)	Carpet Glue	"	"	500			
7 ✓	(13)	Ceiling Fiberglass w/ texture (popcorn)	Back Ent. Hallway	"	500			
8 ✓	(13)	Concrete slab	Ground Area	"	600			

G=Good, D=Damaged, SD=Significantly Damaged

Sampled By: **Daniel McGimsey** Date: _____
 Transported By: **UPS** Date: _____
 Special Instructions: _____

Received By / Date: **Ryan Siler** **12/15/2020**

8685

2072

Company NOVA Engineering and Environmental

Address 17612 Ashely Drive

City / State / Zip Panama City Beach / Florida / 32413

Phone 850-381-9565 FAX 850-249-6683 Email dmcgimsey@usanova.com

Client / Owner: 11

Project and/or Job Number: 1011-3020 H3

Project Address: St. Andrews

Asbestos Chain of Custody Record

Normal 3 Day ☒ Next Day ☐ Same Day ☐ Immediate ☐

Stop First Positive: Yes ☒ No ☐ (*Receive Cut Off Time: 2pm)

Date: 11 Contact: Daniel McGimsey

Phone: 850-381-9565

Email: dmcgimsey@usanova.com & LABREPORTSENV@USANOVA.COM

FAX:

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
9	9	Concrete Masonry	F B	Old pump station behind campsite 13	500		No	Present
10	10	Slab on grade	F B		400			
11	11	Roofing material	Roof F B	Camp store	700			
12	12	Brown vinyl tile at entrance	F B		100			
13	13	Cementitious siding on the exterior of the eastern shed	F B Backshed		200			
14	14	White lin-t. flooring in closet and under carpet	closet F B		500			
15	15	Drop down ceiling in camp store	F B		500			
16	16	slab on grade	F B		500			

G=Good, D=Damaged, SD=Significantly Damaged

Sampled By: Daniel McGimsey Date: _____

Transported By: UPS Date: _____

Special Instructions:

Received By / Date:



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer NOVA Engineering and Environmental, Inc (4810)
Address 4524 Oak Fair Boulevard
Suite 200
Tampa, FL 33610

Order #: 397954

Matrix Paint-CM
Received 12/15/20
Analyzed 12/16/20
Reported 12/16/20

Project St. Andrews State Park
Location St. Andrews State Park
Number 10111-3020143

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
397954-001	S-1	Guard Shack White	12/11/20			
Lead		EPA 7000B	4.00 cm2	<0.0100 mg	<0.0025 mg/cm2	0.0025 mg/cm2
397954-002	S-2	Guard Shack Gray Pt	12/11/20			
Lead		EPA 7000B	4.00 cm2	<0.0100 mg	<0.0025 mg/cm2	0.0025 mg/cm2
397954-003	S-3	Pump Bldg Behind Campsite	12/11/20			
Lead		EPA 7000B	4.00 cm2	0.285 mg	0.0713 mg/cm2	0.0025 mg/cm2
<i>Sample weight below sampling guidelines but sample result is correct and accurate for the weight provided.</i>						
397954-004	S-4	White Ext At Campsite	12/11/20			
Lead		EPA 7000B	4.00 cm2	<0.0100 mg	<0.0025 mg/cm2	0.0025 mg/cm2
397954-005	S-5	Gray Pt. Ext	12/11/20			
Lead		EPA 7000B	4.00 cm2	0.0314 mg	0.00786 mg/cm2	0.0025 mg/cm2
397954-006	S-6	White Pt. Boat Rentals	12/11/20			
Lead		EPA 7000B	4.00 cm2	<0.0100 mg	<0.0025 mg/cm2	0.0025 mg/cm2
397954-007	S-7	Gray Pt.	12/11/20			
Lead		EPA 7000B	4.00 cm2	<0.0100 mg	<0.0025 mg/cm2	0.0025 mg/cm2

Analyst DLJ
397954-12/16/20 05:32 PM

Reviewed By **Maggie Yokley**
Analyst

Federal Lead Paint Statute

Location	Level	Unit
Lead in paint	1.00	mg/cm2

Minimum *Reporting Limit (RL): 0.0100 mg. All internal QC parameters were met. Unusual sample conditions, if any, are described. The test results reported relate only to the samples submitted. Do not reproduce this report except in full. Values are reported to three significant figures. AIHA-LAP, LLC accredited for Lead (Lab ID 100527).



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com • info@slabinc.com

S 7

397954

V: 13971397954

fghraizi
UPS

12/15/2020 9:47:55 AM
1ZXW1699039 1349775

Submitting Co.	NOVA Engineering and Environmental	State of Collection	Florida	Cert. Required	☒ YES ☐ NO
		Acct. #		Phone	850-381-9565
		Email	dmcgimsey@usanova.com		
Project Name	St. Andrews State Park				
Project Location	1				
Project Number	10111-3020143				
Collected By	Daniel McGimsey				
Special Instructions:					

Turn Around Time **	Matrix	Tests/Analytes (Select ALL that Apply) Blank spaces are for additional analytes			
☐ 2 Hour * ☐ Same day * ☐ 1 business day ☒ 2 business days ☐ 3 business days ☐ 5 business days * not available for all tests ** past 3 PM the TAT will begin next business day Please schedule rush tests in advance	☐ Air ☒ Paint ☐ Soil ☐ Wipe ☐ Bulk ☐ Waste Water ☐ Ground Water ☐ Drinking Water ☐ TSP / PM10 ☐ _____	Asbestos in Bulk ☐ PLM ☐ PLM Qualitative ☐ 400 Point Count ☐ 1000 Point Count ☐ Gravimetric Prep Asbestos in Air ☐ PCM ☐ PCM-B Rules	Metals Total ☒ Lead ☐ RCRA 8 Metals ☐ Chromium VI ☐ Mercury ☐ _____ Gravimetric ☐ Total Dust NIOSH 0500 ☐ Resp. Dust NIOSH 0600	TCLP ☐ Lead ☐ RCRA 8 Metals ☐ Full TCLP (w/ organics 10 Day) Miscellaneous ☐ Silica FTIR (7602) ☐ _____	Microbiology ☐ BACT (MPN/PA) ☐ Mold Direct Exam ☐ Allergens Sub-Contract ☐ TEM Chatfield ☐ TEM AHERA ☐ TEM 7402 ☐ Silica XRD (7500)

Sample #	Date Sampled	Time Sampled	Sample Identification (Employee, Bldg, Material, Type ¹)	Wipe Area	Time ² Start	Time ² Stop	Flow Rate ³ Start	Flow Rate ³ Stop	Total Air ⁴
S-1	✓ 12-11	10:30	Ground shock white pt.	4 cm ²					
S-2	✓ "	10:30	" Gray paint	"					
S-3	✓ "	11:18	Paint Behind "compartment"						
S-4	"	11:42	" Gray pt. White ext. pt. compartment						
S-5	"	11:50	Gray pt. ext.	"					
S-6	"	12:15	White pt. Bar rest.	"					
S-7	"	12:20	Gray pt.						

For Aqueous and Solid samples ensure enough sample is sent for duplicate and spike analysis

¹Type: A=Area, B=Blank, P=Personal, E=Excursion ²Beginning/End of Sample Period ³Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]

Relinquished By: _____ Signature: _____ Date/Time: 12-11 / 12:25 PM

! ALL SHADED FIELDS MUST BE FILLED TO AVOID DELAYS !

APPENDIX C

Qualifications and Conclusions

QUALIFICATIONS OF RECOMMENDATIONS

The findings, conclusions and recommendations presented in this report represent our professional opinions concerning the environmental conditions at the site. The opinions presented are relative to the dates of our site work and should not be relied on to represent conditions at later dates or at locations not investigated. The opinions included herein are based on information provided to us, the data obtained at the specific time of the investigation, and our experience with similar sites.

Should conditions or events change, NOVA should be retained to evaluate those changes and their impact to the subject site.

This report is intended for the sole use of **Kimley-Horn** only. The scope of work performed for this study was prepared for **Kimley-Horn** based on the applicable ASTM standard. Use of this report or the findings, conclusions and recommendations by others will be at the sole risk of the user. NOVA is not responsible or liable for the interpretation by others of the data in this report, nor their conclusions, recommendations, or opinions.

Our professional services have been performed, our findings obtained, our conclusions derived and our recommendations prepared in accordance with generally accepted environmental assessment principles and practices in the industry.

APPENDIX D

Certifications

Center for Training, Research and Education for Environmental Occupations

certifies

Daniel McGimsey

NOVA Engineering, 101 Parkside Circle Apt 107 Panama City Beach, FL 32413

Having passed a 25-question exam with a score of 70% or higher has successfully met training requirements for

Asbestos Refresher: Inspector Online

FDBPR Asbestos Licensing Unit: Provider #0000995; Course #FL49-0006389 (½ Day; 3.40 Contact Hours)

(Reaccreditation for Inspector under TSCA Title II/AHERA)

Conducted

06/07/2020

Certificate #: 210135-1215

Exam Date: 06/07/2020

EPA accreditation expires: 06/07/2021

Principal Instructor: *Brian Duchene, PE, LAC*

CEUs: 0.4

FBPR LAC: #0000995; Course ## 0006389

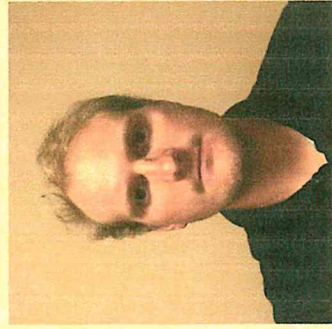
FBPE CEHs: #0004021; Course #0009083/Educational Institutions: 4 CEHs

Carol Hinton

Carol Hinton, Associate Director

United States Environmental Protection Agency

This is to certify that



Daniel T McGimsey

Inspector

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 as:

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 August 27, 2022

LBP-I-1206892-1

Certification #

August 13, 2019

Issued On



Adrienne Priselac, Manager, Toxics Office
Land Division



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT**

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

SCHMALTZ, LAWRENCE GERARD

4524 OAK FAIR BLVD
SUITE 200
NOVA ENGINEERING AND ENVIRONMENTAL
TAMPA FL 33610

LICENSE NUMBER: AX0000009

EXPIRATION DATE: NOVEMBER 30, 2020

Always verify licenses online at MyFloridaLicense.com



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**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).*

2019-01-01 through 2019-12-31
Effective Dates



Dana S. Laman
For the National Voluntary Laboratory Accreditation Program