



THE CITY OF DAYTONA BEACH
OFFICE OF THE PURCHASING AGENT

Post Office Box 2451
Daytona Beach, Florida 32115-2451

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ADDENDUM NO. 1

DATE: April 23, 2018
PROJECT: 0318-1340
CITY ISLAND RECREATION HALL DEMOLITION

OPENING DATE: MAY 14, 2018 AT 2:00 PM

This addendum is hereby incorporated into the Bid Documents for the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~striketrough~~.

1. Attached is a revised complete Hazardous materials survey from Universal Engineering Services that was just received today. This report now includes a "Narrative" which lists on Page 5's Table 2, a lineal quantity of ACM = 16' in Black Mastic/Sealant. Also, Inspection "chain-of-custody" survey sheets pages 17 thru 20, list twelve locations of ACM's with their Square Footage quantities.
2. Electricity will be shut off at this location by May 1, 2018.
3. All other terms and conditions remain the same.

The Bidder shall acknowledge receipt of this addendum on the Bid Proposal Form.

The City of Daytona Beach

Kirk Zimmerman, CPPB
Buyer

Attachment: Pre-Demolition Limited Asbestos Survey



UNIVERSAL ENGINEERING SCIENCES

PRE-DEMOLITION LIMITED ASBESTOS SURVEY

**E. Orange Avenue – Former Recreational Structure
Daytona Beach, Florida**

**UES Project No. 0440.1800027.0000
UES Report No. 133330**

**Date: March 28, 2018
(Revised 4-6-18)**

Prepared for:

**City of Daytona Beach
950 Bellevue Avenue
Daytona Beach, FL 32115**

Prepared by:

**UNIVERSAL ENGINEERING SCIENCES
911 Beville Road, Suite 3
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Phone (386) 756-1105 * Fax (386) 760-4067**

CONSULTANTS:

**Geotechnical Engineering ▪ Environmental Engineering ▪ Construction Materials Testing
Threshold Inspection ▪ Private Provider Inspection ▪ Geophysical Studies**

OFFICES: Daytona Beach, FL ▪ Fort Myers, FL ▪ Fort Pierce, FL ▪ Gainesville, FL ▪ Jacksonville, FL ▪ Leesburg, FL ▪ Miami, FL ▪ Norcross, GA ▪ Ocala, FL ▪ Orange City, FL
Orlando, FL ▪ Palm Coast, FL ▪ Panama City, FL ▪ Pensacola, FL ▪ Rockledge, FL ▪ Sarasota, FL ▪ St. Augustine, FL ▪ Tampa, FL ▪ West Palm Beach, FL

March 28, 2018

Mr. Clifford Palmer
City of Daytona Beach
Technical Services Division
950 Bellevue Avenue
Daytona Beach, FL 32115

Reference: **PRE-DEMOLITION LIMITED ASBESTOS SURVEY**
E. Orange Avenue – Former Recreational Structure
Daytona Beach, Florida
UES Project No. 0440.1800027.0000 and Report No. 133330

Dear Mr. Palmer:

Universal Engineering Sciences (UES) is pleased to submit the enclosed report for the asbestos containing materials survey at the above referenced site during March, 2018.

Universal Engineering Sciences appreciates the opportunity to provide you with our services on this project and we look forward to working with you in the future. Should you have any questions about this report please contact our office at 386-756-1105.

Respectfully submitted,

UNIVERSAL ENGINEERING SCIENCES



Richard LaRocca
Certified Asbestos Inspector
Certification No. 10349



4/3/18

Lindsey Weaver, P.E.
Florida Licensed Asbestos Consultant
License No. EA0000046



RL:LNW

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1.0 INTRODUCTION

1.1 GENERAL

In this report, UES presents the results of the suspected Asbestos Containing Material (ACM) Evaluation performed on the City of Daytona Beach Former Recreational Center structure located along East Orange Avenue in Daytona Beach, Florida (hereinafter "site"). This service was conducted as approved per issue of purchase order # 000012247 and in accordance with UES proposal # 2018D-203RR by Ms. Joanne Flick authorized agent for the City of Daytona Beach.

1.2 PURPOSE AND SCOPE

The purpose of this study was to perform an evaluation of the structures currently present on the site for the presence of Asbestos Containing Materials (ACMs).

The activities and procedures used to accomplish this task were as follows:

1. Review available information concerning the structure including the type and age of original construction
2. Walk through and observe accessible areas of the structure to identify, locate, and assess suspected ACM.
3. Obtain samples of each suspected ACM.
4. Analyze the collected samples using polarized light microscopy (PLM) for the presence of asbestos fibers.
5. Prepare and submit a report of our findings.

Complete destructive observation and sampling procedures were generally not used in our evaluation of the structure. Inaccessible areas within the structure such as inside partitions, walls, or other sealed areas were not completely evaluated as part of this study. The scope of our investigation did not include an evaluation of fixtures, equipment, or stored materials.



2.0 BUILDING CHARACTERISTICS AND INFORMATION

2.1 GENERAL

The former recreational center structure located on the subject property was comprised of concrete masonry construction and wood framing. The main structure was constructed in 1950's (which is consistent with information obtained from the Volusia County Property Appraiser). Building materials observed included wood, aluminum, metals, roofing materials, stuccos, plasters, drywall, joint compound, mastics, dropped ceiling panels, masonry products, caulking, plastics, sealants, and insulations.

2.2 MECHANICAL SYSTEMS

The structure located at the site is classified as municipal and operated multiple HVAC systems providing climate control for the structure.

2.3 AVAILABLE MATERIAL INFORMATION

UES was provided with limited information about the structure at the subject property at the time of our evaluation.

2.4 BUILDING USE

The structures were currently unoccupied and formerly operated as recreational facility.

3.0 BUILDING INSPECTION

3.1 GENERAL

Three forms of asbestos containing materials are typically found in buildings: (1) sprayed-on or troweled-on surfacing materials; (2) thermal insulation on pipes, boilers, and ducts; and (3) miscellaneous materials such as wall board, ceiling tiles, sealants, shingles, mastics/cements and floor tiles. A walk-through inspection was conducted on March 21, 2018, to identify these and other materials present at the structure which are typically suspected of containing ACMs. During the survey, UES collected suspect ACM samples from the interior and exterior of the onsite structure.



3.2 INSPECTION PROCEDURES

The field inspection was performed by a UES inspector accredited according to Federal Regulation 40 CFR, Part 763 (AHERA), under the direction of a UES asbestos consultant licensed in the State of Florida. After a preliminary walk-through of the structure, an inspection was conducted to evaluate the location and extent of the suspected ACMs. Once identified, the suspect ACM was categorized into homogeneous areas containing materials of the same type, age, visual appearance, texture, composition, etc. Random, and in some cases, judgmental samples of each homogeneous area suspect ACMs were then collected. The physical condition and potential for disturbance and damage of each ACM was assessed. In addition, a tactile inspection was performed to evaluate friability. (If the material, when dry can be crumbled, pulverized or reduced to powder by hand pressure, it is considered friable).

3.3 SUSPECTED ASBESTOS CONTAINING BUILDING MATERIALS

Based on our review of the available building information and visual survey of the building, we identified seventeen (17) homogeneous materials as suspected ACMs. Table 1 presents a summary of suspected ACMs.

TABLE 1

Homogeneous Material No.	Sample Numbers	Material Description	Material Location
1	RC-1A,B,C	White/Gray Dropped Panels	Ceiling – Main Area
2	RC-2A,B,C	Tan/ Gray/Green Stucco/Plaster	Walls – Interior - Most
3	RC-3A,B	White Stucco Texture	Walls – Restroom - Some
4	RC-4A,B	White Stucco Texture (Ceiling)	Ceiling – Restrooms
5	RC-5	Blue/Gray 12" Floor Tile	Flooring – Restroom – Women's
6	RC-6A,B	White/Brown 4' x 8' Panels	Ceilings – Some – Stage & Loft
7	RC-7A,B	White/Brown 12" Peg Hole Panels	Walls – Some – Loft Area
8	RC-8A,B	White/Brown 12" Ceiling Panels	Ceiling – Stage Area/Enclosure
9	RC-9A,B,C	White Drywall w/ Joint Compound	Walls/Ceilings – Some – Restrooms & Stage Area



10	RC-10A,B	Black Mastic – A/C	A/C Ductwork – Stage & Above Dropped Ceiling
11	RC-11A,B	Black/Brown Shingles w/ Mastic	Roofing – Main - All
12	RC-12A	Gray/Black Rolled Roof w/ Mastic	Roofing – Some – Flat Area (West Side)
13	RC-13A	Black Mastic/Sealant	Roof – Flat Area - West Entry
14	RC-14A,B,C	Gray/White Caulking/Sealant	Windows – Most – Double Hung
15	RC-15 A,B,C,D	Gray/Stucco Plaster	Walls- Texture - Exterior
16	RC-16A	Gray Concrete Block	Walls- Most - Exterior
17	RC-17A	Gray Concrete Slab	Floor - Slab

4.0 LABORATORY ANALYSIS AND RESULTS

4.1 BULK SAMPLES

The samples of the suspected ACMs collected during the field inspection were transported with chain-of-custody documents to EMSL Analytical, Inc. Laboratories, Orlando, Florida. EMSL is a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for bulk sample analysis. The samples were analyzed for the presence of asbestos using Polarized Light Microscopy (PLM). The analyses were performed according to EPA Method 600/R-93/116, July 1993. A copy of the laboratory report is included in Appendix B of this report.

4.2 POINT COUNT

Suspect ACM samples “were not” point counted as part of this survey.



5.0 FINDINGS

Table 2						
HSA	Material	Material Locations(s) & Sample Number(s)	Condition	Asbestos Analytical Results	NESHAPS Category	Estimated Quantity
10	Black Mastic Material	A/C Ductwork Joints (RC-10)	Good	6% Chrysotile	Category I	Unknown
3	Black Mastic/ Sealant	Roofing Flat Area (West side) (RC-13A.)	Fair	10% Chrysotile	Category I	16 Lineal Feet

5.1 GENERAL

According to the laboratory analysis “**asbestos fibers**” were detected in two samples of the seventeen (17) suspected ACMs identified during our investigation. ACMs are those materials which contain one percent or greater asbestos as a constituent. Please refer to **Table 2** above for a detailed list of materials which were found to contain asbestos as a constituent. **Please note that these mastic roofing materials are present on the horizontal surfaces of the roof structure and may likely extend up or down on the vertical surfaces of structure to some extent.**

6.0 SUMMARY

Inspection of the City of Daytona Beach Former Recreational structure located along East Orange Avenue in Daytona Beach, Florida, identified seventeen (17) different materials suspected of containing asbestos fibers. Bulk samples of each of those materials were collected and submitted to a NVLAP accredited laboratory for analysis. **The results indicated that two of the suspect ACMs submitted to the laboratory contained asbestos fibers.**

7.0 REGULATORY INFORMATION

There are federal and state statutes and regulations which govern the abatement and disposal of ACM’s. The renovation and demolition of buildings containing ACBMs is regulated under the National Emission Standard for Hazardous Airborne Pollutants (NESHAP) statute. The NESHAP regulations require notification to the controlling agency and removal of all regulated asbestos containing materials (RACMs) prior to renovation or demolition. RACMs are defined as (1) friable asbestos material, (2) Category I non-friable asbestos



containing material that has become friable (3) Category I non-friable asbestos containing material that will be or has been subjected to sanding, grinding, cutting, or abrading, or (4) Category II non-friable asbestos containing material 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 operations regulated by the NESHAP. We recommend that you contact the Controlling Agency prior to renovation or demolition regarding the proper disposition of the ACMs. It is important to note that even though an activity may be exempt from the EPA NESHAP regulations; such exemption does not extend to other state and federal statutes.

Renovation or demolition activities of the structure located within the subject property should be conducted in strict compliance with the aforementioned federal statutes and other applicable regulations, and good health practices. All procedures, methods and documentation should be accomplished by and be the responsibility of appropriately licensed professionals (asbestos consultants and contractors). Any material Identified as non-friable ACM must be treated as friable ACM when the material is about to become friable as a result of activities performed within the building.

Demolition under NESHAP is defined as the wrecking or taking out of any load supporting member of a facility together with any related handling operations.

Demolition Activities in buildings that contain ACMs or presumed asbestos containing materials (PACMs) are regulated under the OSHA Asbestos Construction Standard (29 CFR 1926.1101). The OSHA standard requires the building owner to inform their employees who will work in or adjacent to areas containing ACMs or PACMs, perspective employers applying or bidding for work whose employees reasonably can be expected to work in or adjacent to areas containing ACMs or PACMs, all employers of employees on multi-employer work sites who will be performing work with or adjacent to areas containing asbestos, and tenants who will occupy areas containing ACMs or PACMs, of presence, location and quantity of ACMs or PACMs at the work sites in their building and facilities.

8.0 CONTROLLING AGENCIES

The controlling agency for the coordination of projects involving asbestos removal or demolition for Volusia County is the Florida Department of Environmental Protection Central District Office, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767, Ms. Wanda Parker Garvin, Asbestos Contact, (407) 897-4100.



9.0 CONDITIONS AND LIMITATIONS OF THIS STUDY

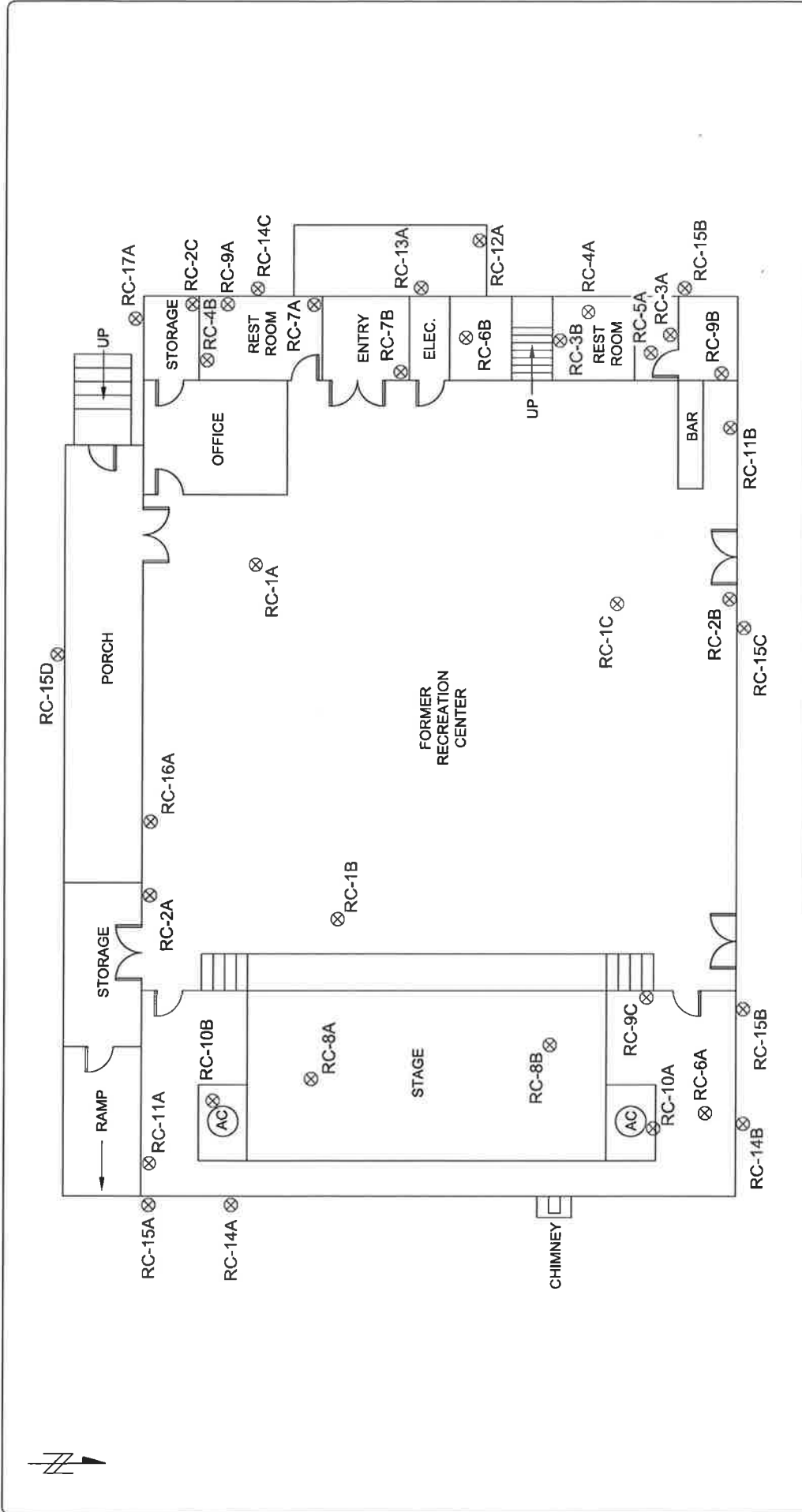
UES obtained samples of the suspect materials which were observed during a walk-through of the structure located on the site that are typically suspected ACMs. The bulk samples were submitted to an NVLAP-approved laboratory for analysis using EPA approved methods or industry accepted standards. No other warranty is expressed or implied.


In general, nondestructive inspection and sampling procedures were incorporated which allowed assessment of reasonably suspected ACMs. Any suspected ACMs not addressed in this report which are encountered during renovations/demolition should be assessed for asbestos content prior to being damaged or removed. Building equipment fixtures or stored materials were not inspected or sampled as part of this evaluation. The indicated material quantities, if any, are approximate and should be considered preliminary in nature.

Analysis of floor tiles and other resinously bound materials by EPA Method 600R-93/116 July, 1993, may yield false-negative results because of method limitations in separating closely bound fibers and in detecting fibers of small length and diameter.



Appendix A
Sample Location Plans



 UNIVERSAL <small>ENGINEERING SERVICES</small>		PROJECT: PRE-DEMOLITION LIMITED ASBESTOS SURVEY FORMER RECREATION CENTER EAST ORANGE AVENUE DAYTONA BEACH, FLORIDA		TITLE: SAMPLING LOCATION PLAN	
DRAWN BY: M/L CHECKED BY: R/L	DATE: 03/27/18 DATE: 03/27/18	PROJECT NO.: 0440-1600027.3000 REPORT NO.: 133330	SCALE: NOT TO SCALE	PAGE/FRL NO.: A-1	

- LEGEND**
- RC-xx ⊗ APPROXIMATE LOCATION OF ASBESTOS SAMPLE
 - RC-xx ⊗ APPROXIMATE LOCATION OF ASBESTOS SAMPLE (ROOF)
 - RC-xx ⊗ APPROXIMATE LOCATION OF ASBESTOS SAMPLE (LOFT)

Appendix B
Laboratory Report



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

Tel/Fax: (407) 599-5887 / (407) 599-9063

http://www.EMSL.com / orlandolab@emsl.com

EMSL Order: 341804093

Customer ID: UESO53

Customer PO:

Project ID:

Attention: Rich LaRocca
Universal Engineering Sciences
911 Beville Road
Suite 3
South Daytona, FL 32119

Phone: (386) 756-1105

Fax: (386) 760-4067

Received Date: 03/23/2018 9:50 AM

Analysis Date: 03/27/2018

Collected Date: 03/21/2018

Project: Pre-Demolition Asbestos Survey, East Orange Ave - Former Recreational Structure

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RC-1A 341804093-0001	Ceilings - Main Floor Area (East) - White/Gray Dropped Panels 2'x4'	Tan/White Fibrous Heterogeneous	30% Cellulose 40% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
RC-1B 341804093-0002	Ceilings - Main Floor Area (South West) - White/Gray Dropped Panels 2'x4'	Tan/White Fibrous Heterogeneous	30% Cellulose 40% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
RC-1C 341804093-0003	Ceilings - Main Floor Area (North West) - White/Gray Dropped Panels 2'x4'	Tan Fibrous Heterogeneous	45% Cellulose 30% Min. Wool	20% Perlite 5% Non-fibrous (Other)	None Detected
RC-2A-Skim Coat 341804093-0004	Walls - Interior Walls Most - Tan/Gray Stucco Plaster	Tan/White Non-Fibrous Heterogeneous		25% Quartz 15% Ca Carbonate 60% Non-fibrous (Other)	None Detected
RC-2A-Base Coat 341804093-0004A	Walls - Interior Walls Most - Tan/Gray Stucco Plaster	Gray Non-Fibrous Homogeneous		25% Quartz 15% Ca Carbonate 60% Non-fibrous (Other)	None Detected
RC-2B-Skim Coat 341804093-0005	Walls - Interior Walls Most - Tan/Gray Stucco Plaster	Tan/White Non-Fibrous Heterogeneous		25% Quartz 15% Ca Carbonate 60% Non-fibrous (Other)	None Detected
RC-2B-Base Coat 341804093-0005A	Walls - Interior Walls Most - Tan/Gray Stucco Plaster	Gray Non-Fibrous Homogeneous		25% Quartz 15% Ca Carbonate 60% Non-fibrous (Other)	None Detected
RC-2C-Skim Coat 341804093-0006	Walls - Interior Walls Most - Green/Gray/White Stucco Plaster	Tan Non-Fibrous Heterogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (Other)	None Detected
RC-2C-Base Coat 341804093-0006A	Walls - Interior Walls Most - Green/Gray/White Stucco Plaster	Gray Non-Fibrous Heterogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (Other)	None Detected
RC-3A 341804093-0007	Walls - Some Restroom Women's - White Stucco Texture	White Non-Fibrous Homogeneous		25% Quartz 5% Ca Carbonate 70% Non-fibrous (Other)	None Detected
RC-3B 341804093-0008	Walls - Some Restroom Women's - White Stucco Texture	White Non-Fibrous Heterogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (Other)	None Detected
RC-4A 341804093-0009	Ceilings - Some Restroom M+W - White Stucco Texture	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RC-4B 341804093-0010	Ceilings - Some Restroom M+W - White Stucco Texture	White Non-Fibrous Heterogeneous		35% Quartz 15% Ca Carbonate 50% Non-fibrous (Other)	None Detected
RC-5A-Floor Tile 341804093-0011	Flooring - Restroom Women's - Blue/Gray 12" Square Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 03/27/2018 17:03:17



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

Tel/Fax: (407) 599-5887 / (407) 599-9063

http://www.EMSL.com / orlandolab@emsl.com

EMSL Order: 341804093

Customer ID: UESO53

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
RC-5A-Mastic 341804093-0011A	Flooring - Restroom Women's - Blue/Gray 12" Square Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
RC-6A 341804093-0012	Ceilings - Some Stage Area + Loft - White/Brown 4'x8' Panels	Brown/White Fibrous Heterogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
RC-6B 341804093-0013	Ceilings - Some Stage Area + Loft - White/Brown 4'x8' Panels	Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
RC-7A 341804093-0014	Wall Tiles - Loft Area West - White/Brown 12" Peg Hole Panels	Brown/White Fibrous Heterogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
RC-7B 341804093-0015	Wall Tiles - Loft Area West - White/Brown 12" Peg Hole Panels	Tan/White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
RC-8A 341804093-0016	Ceiling - Stage Area Enclosure - White/Brown 12" Ceiling Tiles	Brown/White Fibrous Heterogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
RC-8B 341804093-0017	Ceiling - Stage Area Enclosure - White/Brown 12" Ceiling Tiles	Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
RC-9A-Drywall 341804093-0018	Walls/Ceilings R/R - White Drywall W/Jt. Comp.	Brown/Beige Fibrous Heterogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
RC-9A-Joint Compound 341804093-0018A	Walls/Ceilings R/R - White Drywall W/Jt. Comp.	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RC-9A-Mastic 341804093-0018B	Walls/Ceilings R/R - White Drywall W/Jt. Comp.	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
RC-9B-Drywall 341804093-0019	Walls/Ceilings R/R - White Drywall W/Jt. Comp.	Brown/Beige Fibrous Heterogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
RC-9B-Joint Compound 341804093-0019A	Walls/Ceilings R/R - White Drywall W/Jt. Comp.	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RC-9C 341804093-0020 No Joint Compound Present.	Walls/Ceilings Stage - White Drywall W/Jt. Comp.	Tan Fibrous Heterogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
RC-10A 341804093-0021	A/C Duct Works Joints - Black Mastic A/C	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
RC-10B 341804093-0022	A/C Duct Works Joints - Black Mastic A/C	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
RC-11A-Shingle 1 341804093-0023	Roofing - Main/All - Brown/Black Shingles W/Mastic	Red/Black Non-Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
RC-11A-Mastic 1 341804093-0023A	Roofing - Main/All - Brown/Black Shingles W/Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 03/27/2018 17:03:17



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3303 PARKWAY CENTER COURT Orlando, FL 32808

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EMSL Order: 341804093

Customer ID: UESO53

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RC-11A-Shingle 2 341804093-0023B	Roofing - Main/All - Brown/Black Shingles W/Mastic	Red/Black/Green Non-Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
RC-11A-Mastic 2 341804093-0023C	Roofing - Main/All - Brown/Black Shingles W/Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
RC-11B-Shingle 341804093-0024	Roofing - Main/All - Brown/Black Shingles W/Mastic	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
RC-11B-Mastic 341804093-0024A	Roofing - Main/All - Brown/Black Shingles W/Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
RC-12A 341804093-0025	Roofing - Flat Area West Entry - Gray/Black Rolled Roof W/Mastic	Black Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
RC-13A 341804093-0026	Roofing - Flat West Entry - Black Mastic/Sealant	Black Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
RC-14A 341804093-0027	Windows - Most Double Hung - Gray/White Caulking Sealant	Gray/Tan/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RC-14B 341804093-0028	Windows - Most Double Hung - Gray/White Caulking Sealant	Gray/Tan/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RC-14C 341804093-0029	Windows - Most Double Hung - Gray/White Caulking Sealant	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RC-15A 341804093-0030	Walls - Testure Ext. - Gray Stucco/Plaster	Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (Other)	None Detected
RC-15B 341804093-0031	Walls - Testure Exterior - Gray Stucco/Plaster	Gray Non-Fibrous Heterogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (Other)	None Detected
RC-15C 341804093-0032	Walls - Testure Exterior - Gray Stucco/Plaster	Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (Other)	None Detected
RC-15D 341804093-0033	Walls - Testure Exterior - Gray Stucco/Plaster	Gray/Yellow Non-Fibrous Homogeneous		20% Quartz 15% Ca Carbonate 65% Non-fibrous (Other)	None Detected
RC-16A 341804093-0034	Walls - All - Gray Concrete Block	Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (Other)	None Detected
RC-17A 341804093-0035	Floor - Slab - Gray Concrete Slab	Gray/Tan Non-Fibrous Heterogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (Other)	None Detected



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EMSL Order: 341804093

Customer ID: UESO53

Customer PO:

Project ID:

Analyst(s)

Jessicka Lopez (25)

Jhon Rosario (21)

Carlos Rivadeneyra, Laboratory Director
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from: 03/27/2018 17:03:17

341 804 093

Universal Engineering Sciences, Inc. Daytona Branch
ASBESTOS CONTAINING MATERIALS CHAIN-OF-CUSTODY

Client: UNIVERSAL ENGINEERING SCIENCES Project No.: _____ Page: 1 of 4
 Project: PRE-DEMOLITION ASBESTOS SURVEY Analysis Method: PLM-Asbestos Collected By: RLARocca
 Location: EAST ORANGE AVE - FORMER RECREATIONAL STRUCTURE Turn Around Time: 3-21-18
 Date Collected: _____
 Special Instructions/Notes: RLARocca@UNIVERSALENGINEERING.COM Batch No: _____
 Turn Around Time: 3-DAY TAT

Sample Number	HSA	Sample Description	Material Type (S, T, I, M)	Sample Location	Material Condition			Disturbance Potential			Friable		Estimated Quantity
					G	D	SD	L	M	H	Yes	No	
RC-0A		WHITE GRAY DROPPED PANELS 2X4		CEILING - MAIN FLOOR (EAST)	X	X	X	X	X	X	X	X	4200 ^{sq} FT.
RC-1B		↓		↓	X	X	X	X	X	X	X	X	↓
RC-1C		↓		(SOUTH WEST) (NORTH WEST)	X	X	X	X	X	X	X	X	↓
RC-2A		TAN GRAY STUCCO PLASTER		INTERIOR WALLS	X	X	X	X	X	X	X	X	↓
RC-2B		↓		↓	X	X	X	X	X	X	X	X	↓
RC-2C		GREEN GRAY/WHITE STUCCO PLASTER		INTERIOR WALLS	X	X	X	X	X	X	X	X	↓
RC-3A		WHITE STUCCO TEXTURE		WALLS - SOME RESTROOM	X	X	X	X	X	X	X	X	600 ^{sq} FT.
RC-3B		↓		↓	X	X	X	X	X	X	X	X	↓
RC-4A		WHITE STUCCO TEXTURE		CEILING - SOME RESTROOM	X	X	X	X	X	X	X	X	500 ^{sq} FT.
RC-4B		↓		↓	X	X	X	X	X	X	X	X	↓

(HSA = Homogeneous Sampling Area) (S = Surfacing, TSI = Thermal Systems Insulation, M = Miscellaneous) (G = Good, D = Damaged, SD = Significantly Damaged)
 (L = Low, M = Medium, H = High)

Relinquished By: [Signature] Date: 3-22-18 Time: 16:48
 Received By: [Signature] Date: 3-23-18 Time: 9:50 am

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Universal Engineering Sciences, Inc. Daytona Branch
ASBESTOS CONTAINING MATERIALS CHAIN-OF-CUSTODY

Client: UNIVERSAL ENGINEERING SCIENCES Project No.: _____ Page: 2 of 4
 Project: PRE-DEMOLITION ASBESTOS SURVEY Analysis Method: PLM-Asbestos Collected By: RLARocca
 Location: EAST ORANGE AVE - FORMER RECREATIONAL STRUCTURE Turn Around Time: 3-21-18 Date Collected: 3-21-18
 Special Instructions/Notes: RLARocca@UNIVERSALENGINEERING.COM Batch No: _____

Sample Number	HSA	Sample Description	Material Type (S, T, M)	Sample Location	Material Condition			Disturbance Potential			Friable		Estimated Quantity
					G	D	SD	L	M	H	Yes	No	
RC-5A		BLUE/GRAY 12" x 12" FLOOR TILE		FLOORING - RESTROOM WOMENS	X			X	X	X	X	X	175 SQ FT
RC-6A		WHITE/BROWN 4'x8' PANELS		↓ CEILING - SOME + LOFT	X			X	X	X	X	X	
RC-6B		↓		↓	X			X	X	X	X	X	
RC-7A		WHITE/BROWN 12" PEG HOLE PANELS		↓ WALL TILES - LOFT AREA WEST	X			X	X	X	X	X	
RC-7B		↓		↓	X			X	X	X	X	X	
RC-8A		WHITE/BROWN 12" CEILING TILES		↓ CEILING - STAGE AREA ENCLOSURE	X			X	X	X	X	X	700 SQ FT
RC-8B		↓		↓	X			X	X	X	X	X	
RC-9A		WHITE DRYWALL W/ JT. COMP.		↓ WALLS/CEILING R/R	X			X	X	X	X	X	
RC-9B		↓		↓ R/R	X			X	X	X	X	X	
RC-9C		↓		↓ STAGE	X			X	X	X	X	X	

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 (L = Low, M = Medium, H = High)

Relinquished By: [Signature] Date: 3-22-18 Time: 16:48
 Received By: _____ Date: _____ Time: _____



Client: UNIVERSAL ENGINEERING SCIENCES Project No.: _____
 Project: PRE-DEMOLITION ASBESTOS SURVEY Analysis Method PLM-Abbestos
 Location: EAST ORANGE AVE - FORMER RECREATIONAL STRUCTURE
 Special Instructions/Notes: RLARocca@UNIVERSALENGINEERING.COM

Page: 3 of 4
 Collected By: RLARocca
 Date Collected: 3-21-18
 Turn Around Time: 3-DAY TAT
 Batch No: _____

Sample Number	HSA	Sample Description	Material Type (S/TS/IM)	Sample Location	Material Condition			Disturbance Potential			Friable		Estimated Quantity
					G	D	SD	L	M	H	Yes	No	
RC-10A		BLACK MASTIC AC		AC DUCTWORK JOINTS	X	X		X	X	X		X	UNKNOWN
RC-10B		↓		↓	X	X		X	X	X		X	
RC-11A		BROWN GRAY SPINDLES		ROOFING - MAIN/AILE	X	X		X	X	X		X	
RC-11B		↓		↓	X	X		X	X	X		X	
RC-12A		GRAY/BLACK ROLLER ROOFING MASTIC		ROOFING - FLAT WEST AREA	X	X		X	X	X		X	150 SQ
RC-12B		BLACK MASTIC / SEALANT		ROOF - FLAT WEST ENTRY	X	X		X	X	X		X	16 FT
RC-13A		GRAY/WHITE CAULKING SEALANT		WINDOWS - MOST DOUBLE HUNG	X	X		X	X	X		X	
RC-13B		↓		↓	X	X		X	X	X		X	
RC-14C		↓		↓	X	X		X	X	X		X	
RC-15A		GRAY STUCCO / PLASTER		WALLS - TEXTURE EXT.	X	X		X	X	X		X	

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 (L = Low, M = Medium, H = High)

Relinquished By: [Signature] Date: 3-22-18 Time: 16:48
 Received By: _____ Date: _____ Time: _____



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Universal Engineering Sciences, Inc. Daytona Branch
ASBESTOS CONTAINING MATERIALS CHAIN-OF-CUSTODY

Client: UNIVERSAL ENGINEERING SCIENCES Project No.:
Project: PRE-DEMOLITION ASBESTOS SURVEY Analysis Method: PLM-Asbestos
Location: EAST ORANGE AVE - FORMER RECREATIONAL STRUCTURE
Special Instructions/Notes: RAROCCA@UNIVERSALENGINEERING.COM

Collected By: RAROCCA Page: 4 of 4
Date Collected: 3-21-18
Turn Around Time: 3-DAY TAT
Batch No:

Sample Number	HSA	Sample Description	Material Type (S, T, SI, M)	Sample Location	Material Condition			Disturbance Potential			Friable		Estimated Quantity	
					G	D	SD	L	M	H	Yes	No		
RC-15B		GRAY STUCCO/PLASTER		WALLS - TEXTURE EXTERIOR	X	X		X				X		
RC-15C		↓		↓	X	X		X				X		
RC-15D		↓		↓	X	X		X				X		
RC-16A		GRAY CONCRETE BLOCK		WALLS - ALL	X			X				X		
RC-17A		GRAY CONCRETE SLAB		FLOOR - SLAB	X	X		X				X		

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(L = Low, M = Medium, H = High)

Relinquished By: [Signature] Date: 3-22-18 Time: 16:48

Received By: _____ Date: _____ Time: _____

