Addendum No. 6

To: Pre-Bid Meeting Attendees

From: Roger Washington
City of Mobile Architectural Engineering Department

Re: Springhill Recreation Center - Stage & Classroom Improvements
Project #PR-087-23

Date: September 27, 2024

This Addendum forms a part of, and modifies, the Call for Bids for the above referenced project, dated July 31 2024. Acknowledge the receipt of this Addendum No. 6 and all subsequent Addenda, if any, in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

General:

Item 1. BID DATE: Change the bid date in all references to October 9, 2024, in all portions of the Request for Bids. All other aspects of the Bid receipt information remains the same.

Item 2. Attached is a copy of the Limited Hazardous Materials Assessment Report, dated September 27, 2024.

Based on the results of the laboratory analysis, no asbestos was identified in the samples collected during the inspection. Representative photographs of the renovation area and suspected ACM (Asbestos Containing Materials) are included in Appendix E of the attached report. Based on the results of the laboratory analysis, lead was detected in all paint samples collection during the inspection. The laboratory analysis for the ceramic tile sample and cove base samples in the renovation area did not detect lead.

Contractors have been made aware of the presence of the identified lead paint, so that they may maintain compliance with worker protection regulations, employ lead-safe

work practices, and/or conduct a negative exposure assessment per OSHA (29 CFR 1926.62) Lead Exposure in Construction. Lead-containing paint generated waste from the renovation work must be assumed to be hazardous waste or tested by TCLP analysis prior to disposal. A certified abatement contract must be used for the removal and disposal of lead-containing materials. Certification of the Abatement Contractor must be included with the General Contractor's sealed bid at the time of bidding. The City of Mobile shall request copies of the disposal/dump receipts from a pre-approved landfill.

Clarifications: N/A

Forms and Specifications: N/A

Drawings: N/A

RFI's: N/A

Attachments:

1. Limited Hazardous Materials Assessment Report, dated September 27, 2024

END OF ADDENDUM NO. 6

Limited Hazardous Materials Assessment Report

Springhill Recreation Center

1151 Springhill Avenue

Mobile, Alabama 36604

September 27, 2024 | Report Number: EK247050

Prepared for:

City of Mobile
205 Government Street
Mobile, Alabama

Terracon
Explore with us

Nationwide
Terracon.com

- Facilities
- Environmental
- Geotechnical
- Materials

6215 Rangeline Rd., Building 115
Theodore, Alabama 36582-5223
P 251-443-5374
Terracon.com

September 27, 2024

City of Mobile AL
205 Government St
Mobile, Alabama 36602

ATTN: Mr. Roger Washington
E: roger.washington@cityofmobile.org

RE: **Limited Hazardous Materials Assessment Report**
Springhill Recreation Center
1151 Springhill Avenue
Mobile, Alabama 36604
Terracon Project No: EK247050

Dear Mr. Washington:

The purpose of this report is to present the results of the limited hazardous materials assessment performed at the Springhill Recreation Center located at 1151 Springhill Avenue in Mobile, Alabama. The scope of Terracon's assessment included a limited asbestos inspection and lead paint screening. All work was conducted in accordance with Terracon proposal number PEK247050 dated August 23, 2024. Terracon understands that this assessment was requested due to the planned renovation of portions of the recreation center.

Asbestos-containing materials were not identified in the assessment. Lead-containing paints were identified in this assessment. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service. If you have any questions regarding this report, please contact the undersigned at (251) 206-6262.

Sincerely,
Terracon

Rachele P. Taylor
Senior Environmental Engineer

Stephen Howard
Authorized Project Reviewer

Table of Contents

Appendices

1.0 Introduction

Terracon Consultants, Inc. (Terracon) was retained by the City of Mobile (Client) to conduct a limited hazardous materials assessment at the Springhill Recreation Center located at 1151 Springhill Avenue in Mobile, Alabama. The scope of the assessment included a limited asbestos inspection and a lead paint screening. All work was conducted in accordance with Terracon proposal number PEK247050 dated August 23, 2024.

1.1 Project Objective

Terracon understands the limited hazardous materials inspection was requested to provide information regarding the identity, location, condition of asbestos and lead-containing paint in area of planned renovation, specifically the stage area and locker rooms. The scope of services included an inspection regarding suspect asbestos-containing materials (ACM) and painted surfaces (for the presence of lead).

1.2 Scope of Services

1.2.1 Asbestos Inspection

The scope of services included an inspection for asbestos-containing materials (ACM) in the planned renovation area as required by the United States Environmental Protection Agency (USEPA) regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), and the Alabama Safe State Program (Chapter 822-X-2) which prohibit the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP and Chapter 822-X-2 require that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition/renovation activities.

1.2.2 Lead Paint Screening

The limited lead paint screening included utilizing paint chip bulk sampling techniques to identify lead concentrations in various painted surfaces which may be impacted by renovation activities. Lead is regulated by the USEPA and the United States Occupational Safety and Health Administration (OSHA). As such, lead safe work practices will be required if lead-containing paints (LCP) are identified. USEPA regulations would also apply for disposal of lead-based demolition waste. All occupational exposure to lead occurring in the course of construction work, including renovation activities, painting, alteration and repairs is subject to the OSHA lead standard (29 CFR 1926.62).

1.3 General Conditions and Limitations

The hazardous materials assessment was limited to the stage area and locker rooms. The level of effort and associated tasks performed for this service was limited to the scope of services outlined in Terracon's proposal. Terracon did not attempt to identify every potential exposure or hazard present in the building.

At the time of the hazardous materials assessment, the stage and associated locker rooms were not in active use. Areas not accessible during this hazardous materials assessment should be assessed prior to performing activities that may disturb materials not observed during the assessment. **Please note that ACM and lead-containing paint may be present in other areas of the building outside the scope of this assessment. Further inspection and sampling should be conducted prior to renovation or demolition work that may impact areas of the building outside the scope of this assessment.**

1.4 Reliance

This report is for the exclusive use of the Client for the project being discussed. Use or reliance by any other party is prohibited without the written authorization of the Client and Terracon.

Reliance by any other party on this report is prohibited without written authorization of Terracon and the Client. Reliance on this report by the Client and all authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, this report and Terracon's contract with the Client. The limitations of liability defined in the MSA are the aggregate limit of Terracon's liability to the Client.

2.0 Assessment Area Description

The assessment comprised an approximately 1,000 square feet area containing a stage, a bathroom, storage rooms, and locker rooms. The interior finishes consist of plaster with gypsum wallboard, concrete walls, brick walls, wood flooring, and various ceramic floor tiles. The heating, ventilation, and air conditioning (HVAC) for the stage area and locker rooms is a forced-air system with ducted supplies and returns. Air handling equipment is not part of the renovation.

3.0 Regulatory Overview

3.1 Asbestos Regulatory Overview

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Under NESHAP, ACM is identified as either friable, Category I non-friable, or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting, or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM). RACM must be removed prior to renovation or demolition activities which will disturb the materials. Removal of RACM must be conducted by an Alabama-licensed asbestos abatement contractor. The owner or operator must provide the Alabama Department of Environmental Management (ADEM) Air Division with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities for projects which affect at least 160-square feet, 260-linear feet, or 35-cubic feet. Removal of RACM must be conducted by an Alabama-licensed asbestos abatement contractor. Please note that notification for demolition is required regardless of the presence of asbestos.

The United States Occupational Safety and Health Administration (OSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos must not exceed 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30-minute time period known as an excursion limit (EL). The TWA and EL are known as OSHA's asbestos permissible exposure limits (PELs). The OSHA standard classifies construction and maintenance activities that could disturb ACM and specifies work practices and precautions that employers must follow when engaging in each class of regulated work. The standard also specifies requirements for handling materials containing asbestos regardless of concentrations.

3.2 Lead Paint Regulatory Overview

Lead is regulated by the EPA, HUD, and OSHA. The EPA regulates lead use, removal, and disposal, and OSHA regulates lead exposure to workers. The EPA defines lead-based paint (LBP) as paint, varnish, stain, or other applied coating that contains lead equal to or greater than 1.0 mg/cm^2, 5,000 mg/kg, or 0.5% by dry weight as determined by laboratory analysis. OSHA defines lead paint as a paint which contains lead, regardless of the concentration. A synopsis of the OSHA regulations (29 CFR 1926.62) and the applicability are as follows:

The OSHA *Lead Standard for Construction* (29 CFR 1926.62) applies to all construction work where an employee may be occupationally exposed to lead. All work related to construction, alteration, or repair (including painting and decorating) is included. The lead-in-construction standard applies to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon on the method of removal and other workplace conditions.

Under this standard, construction includes, but is not limited to, the following:

- Demolition or salvage of structures where lead or materials containing lead are present,
- Removal or encapsulation of materials containing lead,
- New construction, alteration, repair, or renovation of structures, substrates, or portions containing lead, or materials containing lead,
- Installation of products containing lead,
- Lead contamination/emergency clean-up,
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed, and
- Maintenance operations associated with construction activities described above.

Personnel performing renovation and demolition activities that may disturb painted components with concentrations of lead above the designated analytical detection limit should comply with all current OSHA regulations in order to minimize employee exposure. Currently, any proposed renovation/demolition is subject to the OSHA regulations (29 CFR 1926.62). The OSHA regulation defines specific training requirements, engineering controls and working practices for construction personnel subject to this standard. Occupational exposure to lead occurring in the course of construction work, including maintenance activities, painting, alteration, and repairs is subject to the OSHA Lead Exposure in Construction standard.

Construction work covered by 29 CFR 1926.62 includes any repair or renovation activities or other activities that disturb in-place lead-containing materials but does not include routine cleaning and repainting where there is insignificant damage, wear, or corrosion of existing lead-containing paints or substrates. Employers must assure that no employee will be exposed to lead at concentrations greater than 50 micrograms per cubic meter (µg/m^3)

averaged over an eight-hour period without adequate protection. The OSHA Standard also establishes an action level of 30 µg/m^3 which if exceeded triggers the requirement for medical monitoring.

The above overview is not intended to be inclusive of all potentially pertinent regulatory information. The relevant EPA and OSHA standards should be consulted prior to undertaking activities involving the demolition, renovation, or maintenance of surfaces coated with lead-based paints.

In addition to the above, the EPA Resource Conservation and Recovery Act (RCRA) characterization and disposal rules apply to lead renovation debris generated as part of this project. Lead renovation debris must be submitted to an accredited laboratory for analysis for lead by Toxicity Characteristic Leaching Procedure (TCLP) prior to disposal. Results that exceed 5 milligrams per liter (mg/L) lead are deemed hazardous and those materials must be disposed of as hazardous waste.

4.0 Field Activities

4.1 Asbestos Inspection

The limited asbestos inspection was conducted by Ms. Rachele Taylor, a State of Alabama "Safe State" accredited asbestos inspector. A copy of her inspector accreditation certificate is included in Appendix A. The inspection was performed in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). A summary of survey activities is provided below.

4.1.1 Visual Assessment

Our inspection activities began with visual observation of the interior of the renovation area (stage area and locker rooms) to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, and texture with consideration given to the date of application. The assessment was conducted throughout visually accessible areas. Building materials identified as glass, wood, metal or rubber were not considered suspect ACM.

4.1.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. Friability was assessed by physically touching suspect materials.

4.1.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance AHERA sampling protocols. Samples of suspect materials were collected in each homogeneous area. The selection of sample locations and frequency of sampling were based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content. The inspector collected bulk samples using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Terracon collected a total of nine bulk samples from three homogeneous areas of suspect ACM from the stage area and locker rooms. A summary of suspected ACM materials collected during the inspection is included as Appendix B. A floorplan depicting approximate sample locations is provided as Exhibit 1 in Appendix C.

4.1.4 Sample Analysis

Bulk samples were submitted under chain of custody to QuanTEM Labs in Oklahoma City, Oklahoma for analysis by polarized light microscopy (PLM) with dispersion staining techniques per EPA methodology (EPA/600/R-93/1/640). The percentage of asbestos, where applicable, was determined by microscopic visual estimation. QuanTEM Labs is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 101959-0). The laboratory analytical report is included in Appendix D.

4.2 Limited Lead Paint Screening

The limited lead paint screening included an evaluation of painted building components to be affected by the planned renovation activities utilizing lead paint chip sampling techniques. The sampling was conducted in general accordance with the EPA's work practice standards for conducting lead paint activities (40 CFR 745.227), and State and local regulations to meet informational needs to comply with the OSHA Lead in Construction Standard (29 CFR 1926.62).

Terracon collected seven paint chip samples for the screening. In addition, Terracon requested analysis of the ceramic tiles and cove base in the renovation area for lead-containing glazing. Although these materials are not regulated by the EPA as a lead-based paint or OSHA as a lead-containing paint, disturbance to lead-containing ceramic tile may cause a lead dust hazard. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker. Paint chips samples were then submitted under chain of custody to QuanTem Labs for lead analysis by USEPA Method 7000B Flame Atomic Absorption Spectrophotometry. QuanTem Labs is accredited by the AIHA® Laboratory Accreditation Programs, LLC under the Environmental Lead Laboratory Accreditation Program.

5.0 Findings and Recommendations

5.1 Asbestos Inspection Results

Based on the results of laboratory analysis, no asbestos was identified in the samples collected during the inspection. Representative photographs of the renovation area and suspect ACM are included in Appendix E.

Please note that suspect materials other than those identified during the inspection may exist within concealed areas. Should suspect materials other than those which were identified during this inspection be uncovered prior to or during renovations, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

5.2 Limited Lead Paint Screening Results

Terracon collected seven paint chip samples from representative painted substrates in the renovation area and sample of the ceramic tile. A summary of lead paint samples collected during screening is included in Appendix F. A floorplan depicting approximate sample locations is provided as Exhibit 1 in Appendix C. Based on the results of laboratory analysis, lead was detected in all seven paint samples. The laboratory analysis for the ceramic tile sample and cove base sample in the renovation area did not detect lead.

The laboratory analytical report is included in Appendix D. Any untested paints should be assumed to contain lead unless later sampled and determined by laboratory analysis to not contain detectable concentrations of lead.

Contractors should be made aware of the presence of the identified lead paint, so that they may maintain compliance with worker protection regulations, employ lead-safe work practices, and/or conduct a negative exposure assessment per OSHA (29 CFR 1926.62) Lead Exposure in Construction. Lead-containing paint generated waste from the renovation work must be assumed to be hazardous waste or tested by TCLP analysis prior to disposal.

At the time of the limited lead-containing paint screening the subject site does not meet the definition of "target housing". Target housing is a home or residential unit built before 1978. Therefore, the lead testing conducted herein was not intended to comply with regulations for target housing, including the HUD Lead Safe Housing Rule (LSHR) (24 CFR Part 35, subparts B-R), the EPA/HUD Lead Disclosure Rule (the identical 24 CFR 35, subpart A and 40 CFR 745, subpart F, or the EPA Renovation, Repair and Painting (RRP) Rule.

6.0 General Comments

These services were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our assessment of the building. The information contained in this report is relevant to the date on which this assessment was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the Client for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

Appendix A

Certification

THE UNIVERSITY OF ALABAMA®

UA SafeState

has examined the documentation of asbestos training and qualifications of the person named below and confers this

Certificate of Accreditation

Asbestos Inspector Renewal

Rachele Taylor

Alabama Accreditation Number

AIN0224720875

Certificate Expiration Date

February 8, 2025

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.

Kalyn Tew

Environmental Services Manager

Associate Director for Environmental Programs

Alabama Lead-Based Paint Activities Accreditation Program

THE UNIVERSITY OF ALABAMA®

UA SafeState

has examined the documentation of lead-based paint training
and qualifications of the person named below and confers this

Certificate of Accreditation

Lead Based Paint Inspector Re-Accreditation/Re-Registration

Rachele Taylor

Alabama Accreditation Number

LIN0623720875

Certificate Expiration Date

June 23, 2026

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program for the Registration and Accreditation of Lead Training Programs and Individuals engaged in Lead-Based Paint Activities. Alabama Administrative Code 822-X-1, July 27, 1998

Kalyn Tew

Environmental Services Manager

Associate Director for Environmental Programs

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ilac-MRA

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101959-0

QuanTEM Laboratories, LLC

Oklahoma City, OK

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 17025:2017. 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).

2023-10-01 through 2024-09-30
Effective Dates

DEPARTMENT OF COMMERCE · UNITED STATES OF AMERICA

For the National Voluntary Laboratory Accreditation Program

National Voluntary
Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

QuanTEM Laboratories, LLC
2033 Heritage Park Drive
Oklahoma City, OK 73120-7579
Mr. John E. Barnett
Phone: 405-755-7272 Fax: 405-755-2058
Email: jbarnett@quantem.com
http://www.quantem.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101959-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

Effective 2023-10-01 through 2024-09-30

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

QuanTEM Laboratories

2033 Heritage Park Drive, Oklahoma City, OK 73120

Laboratory ID: LAP-101352

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs, LLC (AIHA LAP) 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: July 01, 2026
☑	**ENVIRONMENTAL LEAD**	Accreditation Expires: July 01, 2026
☑	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: July 01, 2026
☐	**FOOD**	Accreditation Expires:
☐	**UNIQUE SCOPES**	Accreditation Expires:
☐	**BE FIELD/MOBILE**	Accreditation Expires:

Specific Field(s) of Testing/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 requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl O. Morton

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

Revision21: 10/24/2023

Date Issued: 07/01/2024

Appendix B

Asbestos Sample Summary

Terracon

Appendix B

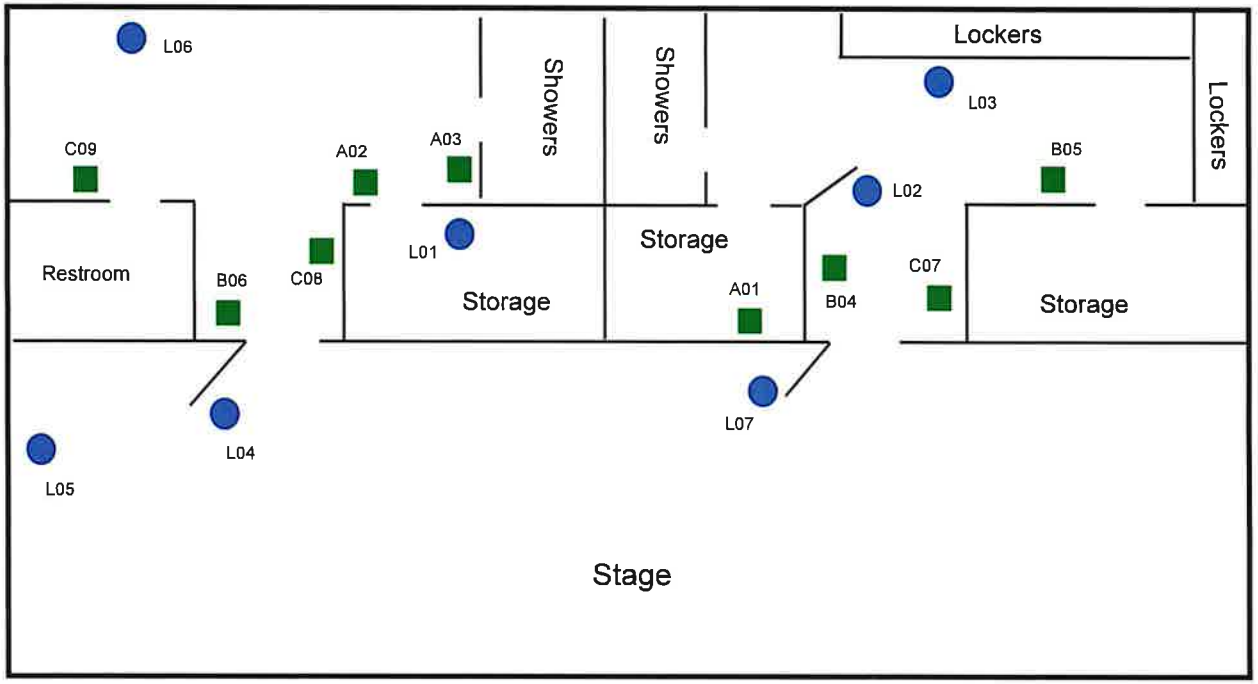
Asbestos Sample Summary
Springhill Recreation Center
1151 Springhill Avenue
Mobile, Alabama
Terracon Project No. EK247050

HA	Sample Number	Material Description	Material Location	Condition	Lab Results[1]	NESHAP Category
01	A-01	White wallboard system (gypsum board and joint compound)	Some interior walls	Good	ND	Category II Non-Friable
	A-02				ND	
	A-03				ND	
02	B-04	White baseboard ceramic tile, thinset, grout	Throughout locker areas	Good	ND	Category II Non-Friable
	B-05				ND	
	B-06				ND	
03	C-07	Gray ceramic floor tile, grout	Throughout locker areas	Good	ND	Category II Non-Friable
	C-08				ND	
	C-09				ND	

[1] HA = Homogenous Area, ND = None Detected

Appendix C

Exhibits



LEGEND
ACM Sample Location
Lead Sample Location

NOT TO SCALE

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager:	RT
Drawn by:	RT
Checked by:	JD
Approved by:	JD

Project No.	EK247050
Scale:	AS SHOWN
File Name:	EK247050
Date:	SEP 2024

Terracon
6215 Rangeline Rd Bldg 115
Theodore, AL 36582-5223

SAMPLE LOCATIONS

Springhill Recreation Center
1151 Springhill Ave
Mobile, AL

Exhibit 1

Appendix D

Analytical Laboratory Report

QUANTEM LABORATORIES
2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 372410
Account Number: C085

Client: Terracon - Ridgeland
Rachele Taylor

Date Received: 09/11/2024
Received By: Courtney Holman
Date Analyzed: 09/17/2024
Analyzed By: Benjamin Hill
Methodology: EPA/600/R-93/116

Project: Springhill Recreation Center
Project Location: Mobile AL
Project Number: EK247050

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	A-01	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
001a		Layered	White Wallboard	Asbestos Not Present	Cellulose 10	Gypsum
002	A-02	Layered	White Texture	Asbestos Not Present	NA	Gypsum CaCO3 Paint
002a		Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Sand Paint
002b		Layered	Tan Plaster	Asbestos Not Present	Cellulose <1	Gypsum Sand
003	A-03	Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Sand Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QUANTEM LABORATORIES
2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 372410
Account Number: C085

Client: Terracon - Ridgeland
Rachele Taylor

Date Received: 09/11/2024
Received By: Courtney Holman
Date Analyzed: 09/17/2024
Analyzed By: Benjamin Hill
Methodology: EPA/600/R-93/116

Project: Springhill Recreation Center
Project Location: Mobile AL
Project Number: EK247050

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
003a		Layered	Tan Plaster	Asbestos Not Present	Cellulose <1	Gypsum Sand
004	B-04	Layered	White Ceramic Tile	Asbestos Not Present	NA	Clay Sand
004a		Layered	White Grout	Asbestos Not Present	NA	CaCO3 Sand
004b		Layered	Gray Thinset	Asbestos Not Present	NA	CaCO3 Sand
005	B-05	Layered	White Ceramic Tile	Asbestos Not Present	NA	Clay Sand
005a		Layered	White Grout	Asbestos Not Present	NA	CaCO3 Sand
005b		Layered	Gray Thinset	Asbestos Not Present	NA	CaCO3 Sand

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 372410
Account Number: C085

Client: Terracon - Ridgeland
Rachele Taylor

Date Received: 09/11/2024
Received By: Courtney Holman
Date Analyzed: 09/17/2024
Analyzed By: Benjamin Hill
Methodology: EPA/600/R-93/116

Project: Springhill Recreation Center
Project Location: Mobile AL
Project Number: EK247050

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
006	B-06	Layered	White Ceramic Tile	Asbestos Not Present	NA	Clay Sand
006a		Layered	White Grout	Asbestos Not Present	NA	CaCO3 Sand
006b		Layered	Gray Thinset	Asbestos Not Present	NA	CaCO3 Sand
007	C-07	Layered	White Ceramic Tile	Asbestos Not Present	NA	Clay Sand
007a		Layered	Gray Grout	Asbestos Not Present	NA	CaCO3 Sand
008	C-08	Layered	White Ceramic Tile	Asbestos Not Present	NA	Clay Sand

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 372410
Account Number: C085

Client: Terracon - Ridgeland
Rachele Taylor

Date Received: 09/11/2024
Received By: Courtney Holman
Date Analyzed: 09/17/2024
Analyzed By: Benjamin Hill
Methodology: EPA/600/R-93/116

Project: Springhill Recreation Center
Project Location: Mobile AL
Project Number: EK247050

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
008a		Layered	Gray Grout	Asbestos Not Present	NA	CaCO3 Sand
009	C-09	Layered	White Ceramic Tile	Asbestos Not Present	NA	Clay Sand
009a		Layered	Gray Grout	Asbestos Not Present	NA	CaCO3 Sand

Benjamin Hill

Benjamin Hill, Assistant Laboratory Manager

9/17/2024
Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested.
NVLAP accreditation applies only to analysis performed utilizing EPA—40 CFR Appendix E to Subpart E of Part 763 and EPA/600/R-93/116 methods.
This report may not be used to claim product endorsement by NVLAP or any agency of the US Government.

ASBESTOS CHAIN OF CUSTODY

QUANTEM LABORATORIES
www.QuanTEM.com
2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
Lab No. 372410
Accept / Reject

Contact Information			
Company:	Terracon	Phone:	(251) 206-6262
Contact:	Rachele Taylor	Cell Phone:	(662) 415-2295
Account #:	CO-85	E-mail:	rachele.taylor@terracon.com
SAMPLED BY: Name:	Rachele Taylor	Date:	9/9/24

Project Information	
Project Name:	Springhill Recreation Center
Project Location:	Mobile AL
Project ID:	EK247050
P.O. Number:	EK247050

Report Results (☑ one box)	
☐	QuanTEM Website
☑	Email rachele.taylor@terracon.com
☐	Other _____

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
Rachele Taylor	9/9, 1600	UPS	Lindsay M. Hall	9/11/24 @ 9:40

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

PLM	PLM	TEM	TEM	TURNAROUND TIME
☑ Bulk Analysis (EPA 600/R-93/116)	☐ Vermiculite Attic Insulation (EPA 600/R-04/004)	☐ Air- AHERA	☐ Bulk- Presence / Absence EPA600/R-93/116	☐ Rush
☐ 400 Point Count	☐ Other	☐ Air- NIOSH 7402	☐ Bulk- Quantitative [weight%]- Chatfield	☐ Same Day
☐ 1000 Point Count	PCM	☐ Air- ISO 10312	☐ Dust- Presence / Absence	☐ 24 - Hour
☐ Gravimetric Preparation	☐ NIOSH 7400	☐ Drinking Water- EPA 100.2	☐ Dust- Quantitative [fibers/sq.cm]- ASTM D5755	☐ 3 - Day
☐ Particle ID		☐ Waste Water- EPA 600/4-83-043	☐ Other	☑ 5 - Day

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	A-01	☐	white	wallboard system		
2	A-02	☐	white	wallboard system		
3	A-03	☐	white	wallboard system		
4	B-04	☐	white	baseboard tile, thinset, grout		
5	B-05	☐	white	baseboard tile, thinset, grout		
6	B-06	☐	white	baseboard tile, thinset, grout		
7	C-07	☐	gray	floor tile, grout		
8	C-08	☐	gray	floor tile, grout		
9	C-09	☐	gray	floor tile, grout		
10		☐				

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"
Please Note - UPS and USPS are NOT available for Saturday Delivery

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 372848
Date Received: 09/25/24
Received By: Courtney Holman
Date Sampled:
Time Sampled:
Analyst:
Date of Report: 09/26/24

AIHA LAP, LLC: 101352

Client: Terracon - Ridgeland
Rachele Taylor

Acct. No.: C085

Project: Springhill Recreation Center
Location: Mobile AL
Project No.: EK247050

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	B-05	Bulk	Lead	<50	50	mg/kg	09/26/24 13:05	B EPA 7000B (1)
002	C-08	Bulk	Lead	<50	50	mg/kg	09/26/24 13:05	B EPA 7000B (1)

Authorized Signature: _____

Eric Caves, Chemistry Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations. Customer provided data such as volumes, areas, etc., cannot be verified by QuanTEM Laboratories, LLC.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report
QAQC Results

QA ID: 21239
Test: Lead
Date: 9/26/2024
Matrix: Bulk
Lab Number: 372848
Approved By: Eric Caves
Date Approved: 9/26/2024

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
FCV	2.2	2.42	2.8
RLVS	0.05	0.09	0.15
ICV	0.9	0.97	1.1

Duplicate Data:

Sample Number	Result	Duplicate	% RPD
372848-002	0.000	0.000	#Num!

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
372848-002	0.000	2.000	1.690	84.5			
LCS-B	0.000	2.428	2.426	99.9	2.377	97.9	2.0

Authorized Signature: _____

Eric Caves, Chemistry Technical Manager

372848

ASBESTOS CHAIN OF CUSTODY

QUANTEM LABORATORIES
www.QuanTEM.com
2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT – PLEASE PRINT LEGIBLY

For Lab Use Only
Lab No: 372410 CH
Accept Reject

Contact Information			Project Information		Report Results (☑ one box)	
Company: Terracon	Phone: (251) 206-6262		Project Name: Springhill Recreation Center		☐	QuanTEM Website
Contact: Rachele Taylor	Cell Phone: (662) 415-2295		Project Location: Mobile AL		☑	Email rachele.taylor@terracon.com
Account #: CO-85	E-mail: rachele.taylor@terracon.com		Project ID: EK247050		☐	Other
SAMPLED BY: Name: Rachele Taylor	Date: 9/9/24		P.O. Number: EK247050			

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
	9/9, 1600	UPS		9/11/24 @ 940

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

PLM		PLM		TEM		TEM		TURNAROUND TIME	
☑	Bulk Analysis (EPA 600/R-93/116)	☐	Vermiculite Attic Insulation (EPA 600/R-04/004)	☐	Air- AHERA	☐	Bulk- Presence / Absence EPA600/R-93/116	☐	Rush
☐	400 Point Count	☐	Other	☐	Air- NIOSH 7402	☐	Bulk- Quantitative [weight%]- Chatfield	☐	Same Day
☐	1000 Point Count	PCM		☐	Air- ISO 10312	☐	Dust- Presence / Absence	☐	24 - Hour
☐	Gravimetric Preparation	☐	NIOSH 7400	☐	Drinking Water- EPA 100.2	☐	Dust- Quantitative [fibers/sq.cm]- ASTM D5755	☐	3 - Day
☐	Particle ID			☐	Waste Water- EPA 600/4-83-043	☐	Other	☑	5 - Day

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	A-01	☐	white	wallboard system		
2	A-02	☐	white	wallboard system		
3	A-03	☐	white	wallboard system		
4	B-04	☐	white	baseboard tile, thinset, grout		
5	B-05	☐	white	baseboard tile, thinset, grout		
6	B-06	☐	white	baseboard tile, thinset, grout		
7	C-07	☐	gray	floor tile, grout		
8	C-08	☐	gray	floor tile, grout		
9	C-09	☐	gray	floor tile, grout		
10		☐				

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"
Please Note - UPS and USPS are NOT available for Saturday Delivery

Appendix E

Photographs

Photo 1 LCP, stage area wall paint

Photo 2 LCP, stage area wall paint

Photo 3 LCP, locker paint

Photo 4 LCP, locker room door paint

Photo 5 LCP, window paint

Photo 6 LCP, locker room door paint

Photo 7 HA-01, wallboard system

Photo 8 HA-02, baseboard tile

Photo 9 HA-03, floor tile and grout

Appendix F

Lead Paint Sample Summary

Terracon

Appendix F

Lead Paint Sample Summary
Springhill Recreation Center
1151 Springhill Avenue
Mobile, Alabama
Terracon Project No. EK247050

Sample No.	Paint Color	Paint Substrate	Component	Sample Location	Surface Condition	Lead Content (percent by weight)
L-01	Cream	Gypsum and concrete	Wall	Throughout stage area	Peeling	0.12
L-02	Off white	Wood	Door	Bathrooms/Locker Rooms	Peeling	0.12
L-03	Dark brown	Metal	Locker	Bathrooms/Locker Rooms	Intact	2.5
L-04	Gray / cream	Wood	Door	Locker room	Peeling	0.16
L-05	Off white	Brick	Wall	Throughout stage area	Intact	0.16
L-06	Dark brown	Wood	Window	Locker room	Peeling	0.14
B-05	White	Ceramic tile	Cove base tile	Locker room	Intact	<50 mg/Kg
C-08	White	Ceramic tile	Floor tile	Locker room	Intact	<50 mg/Kg

Red font indicates that the paint contains a detectable lead concentration and is subject to OSHA worker protection rules.
"<" indicates result is below the laboratory detection limit for FAA analysis
mg/Kg = milligrams per kilogram

OSHA defines lead paint as a paint, which contains lead, regardless of the concentration. Currently, any proposed renovation or demolition is subject to the OSHA regulations (29 CFR 1926.62 – Lead Exposure in Construction). Construction work covered by (29 CFR 1926.62) includes any repair or renovation activities or other activities that disturb in-place lead-containing materials but does not include routine cleaning and repainting where there is insignificant damage, wear, or corrosion of existing lead-containing coatings or substrates.