

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION
AND DEVELOPMENT

LETTER BID
PROPOSAL

STATE PROJECT NO. 455-09-0025 (H.003495) (PART 4)
(Contract No. 18)
FEDERAL AID PROJECT NO. 0906(517)
I-49 NORTH (I-220 TO MARTIN LUTHER KING DRIVE)
DEMOLITION OF BUILDINGS
CADDO PARISH

NOTICE

DEMOLITION OF STATE-OWNED BUILDINGS AND APPURTENANCES "WHERE IS - AS IS"

Sealed letter bids for the demolition of State-owned buildings and appurtenances will be received by the Louisiana Department of Transportation and Development, Real Estate Section, 1201 Capitol Access Road, Baton Rouge, Louisiana 70802 until 4:15 P.M. on Wednesday, May 15, 2013, after which bids will be received in the Louisiana Department of Transportation and Development Auditorium, 1201 Capitol Access Road, Baton Rouge, Louisiana, from 9:00 A.M. until 10:00 A.M. on Thursday, May 16, 2013, at which time and place bids will be publicly opened and read. No bids will be received after 10:00 A.M.

STATE PROJECT NO. 455-09-0025 (H.003495) (PART 4) (Contract No. 18)

FEDERAL AID PROJECT NO.0906(517)

DEMOLITION OF BUILDINGS AND APPURTENANCES, Item 54-4 A: 1600 Sq. Ft. Wood Framed Residence, 54-4 B: 1000 Sq. Ft. Wood Framed Residence, 54-4 C: 2000 Sq Ft. Concrete Masonry Building, 54-4 D: 80 Sq Ft. Wood Framed Structure.

PERFORMANCE GUARANTY: \$4,680.00

DISTRICT PROPERTY MANAGER: Debra Boutwell, 3339 Industrial Drive, Bossier City, Louisiana 71112, (318) 549-8455

Bids must be submitted on forms provided by the Department. Bid forms may be obtained upon request from 1201 Capitol Access Road, Baton Rouge, Louisiana 70802, Phone 225-242-4593. Bid forms may also be downloaded from the Department's Real Estate web site FOR VIEWING ONLY at, http://www.dotd.state.la.us/highways/project_devel/realestate/realestate.asp. Written requests for bid forms should be sent to Louisiana Department of Transportation and Development, Real Estate Section, 1201 Capitol Access Road, Baton Rouge, Louisiana 70802. Bids should be mailed to Louisiana Department of Transportation and Development, Real Estate Section, 1201 Capitol Access Road, Baton Rouge, Louisiana 70802.

The Performance Guaranty shall be enclosed with the bid. Bid forms must be accompanied by a properly completed W-9 form, which is necessary for the refund of the Performance Guaranty.

Buildings offered for sale may be occupied, locked or boarded up. The buildings may be inspected by prospective bidders by appointment only between the hours of 8:00 A.M. and 4:00 P.M., Monday through Friday, by contacting the District Property Manager or his authorized representative.

The right is reserved to reject bids and waive informalities.

SECRETARY, DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

LOUISIANA DEPARTMENT OF
TRANSPORTATION AND DEVELOPMENT

INSTRUCTIONS TO BIDDERS
DEMOLITION OF BUILDINGS

SUBMITTAL OF BIDS: Bids must be submitted on the form provided herein and the bid prices shall be written in ink. The proposal and Contract must also be signed in ink. The bidder must also execute his portion of the enclosed Contract and have his signature witnessed by two witnesses. The portions of the Contract which must be completed by the bidder are shown on the enclosed sample. Failure of the bidder to submit the Contract properly executed along with his/her bid will be cause for rejection of his/her bid. The Department will execute its portion of the contract and date it immediately after determination of the successful bidder. The proposal, performance guaranty, Contract and other information specified in the proposal shall be submitted in a sealed envelope so marked as to indicate its contents without being opened. This envelope shall be placed in another which shall be sealed, addressed and delivered to the Louisiana Department of Transportation and Development, Baton Rouge, Louisiana, before the time specified for opening bids. Bids received after the time specified will be returned to the bidder unopened. If the bidder desires to change a bid price before the time specified for opening bids, he may do so by striking through the original bid price, writing the new bid price in ink and initialing.

PERFORMANCE GUARANTY: The performance guaranty must be enclosed with the bid; must be in the amount specified in the "Notice" elsewhere herein; and must be made payable to the Louisiana Department of Transportation and Development.

The performance guaranty shall be a bond, certified check, official check, cashier's check, postal money order or bank money order. If the performance guaranty is a bond, it shall be similar to the bond form elsewhere herein and shall be guaranteed by a surety company authorized to do business in Louisiana.

Performance guaranties, except those of successful bidders, will be returned to bidders after determination of successful bidders. Bid forms must be accompanied by a properly completed W-9 form, which is necessary for the refund of the performance guaranty.

All costs for furnishing performance guaranties shall be borne by the bidder.

REJECTION OF BIDS: Proposals submitted without the Performance Guaranty will be rejected. Proposals submitted with incomplete bids, additions not called for, or conditional or alternate bids not called for, or without the proper signatures will also be rejected.

LOUISIANA DEPARTMENT OF
TRANSPORTATION AND DEVELOPMENT

CONDITIONS OF DEMOLITION

APPURTENANCES: "Appurtenance" shall be defined as: That which belongs to something else; something annexed to another thing more worthy as principal, and incident to it, such as outbuildings.

AWARD OF CONTRACT: The award of Contract, if awarded, will be made to lowest responsible bidder on the total bid for all parcels immediately after determination of the successful bidder.

LAWS TO BE OBSERVED: The contractor shall comply with all Federal, State and local laws, ordinances and regulations affecting the removal of the buildings and appurtenances, and shall indemnify the Department and its representatives against any claim or liability arising from violation of any such law, ordinance or regulation.

It is the contractor's responsibility to determine if asbestos material is present in the buildings to be demolished. If asbestos material is present the contractor must handle the removal and disposal of it in accordance with applicable State and Federal regulations.

Liquefied petroleum gas tanks and systems shall be removed in accordance with rules and regulations of the Liquefied Petroleum Gas Commission, Old State Capitol Building, Baton Rouge, Louisiana.

SANITARY PROVISIONS: The contractor shall observe rules and regulations of the State Board of Health and of all local health officials, and shall take all necessary precautions to avoid unhealthy conditions.

PERMITS AND LICENSES: The contractor shall procure all permits and licenses, pay all charges and fees, and give all notices necessary to lawful removal of the buildings and appurtenances.

RESPONSIBILITY FOR DAMAGE CLAIMS: The contractor shall indemnify the Department and its representatives against all claims arising from injuries to persons or damages to property due to neglect by the contractor.

PRESERVATION AND RESTORATION OF PROPERTY, TREES, MONUMENTS, ETC.: The contractor shall be responsible for preservation of public and private property, trees, shrubs, monuments, etc., adjacent to the right of way on which the buildings and appurtenances are located and shall take every precaution to prevent damage thereto. Land monuments, property markers and right of way markers shall not be removed by the contractor without proper authority.

The contractor shall be responsible for damage done to public or private property due to any act, omission, neglect or misconduct in the execution of the work, or defective work or material, and shall restore, at his expense, such property to a condition similar or equal to that existing before damage was done by repairing, rebuilding or otherwise restoring same, or shall make good such damage in an acceptable manner.

DEMOLITION: Demolition shall not begin until the contractor has been notified in writing by the Department of the date on which he may begin removal operations, from which date the contractor shall have sixty (60) calendar days to complete the removal and cleaning of the area, unless an extension of time is granted in writing by the Department.

All removal activities shall be coordinated with Department's roadway contractor if project contract has been awarded.

If buildings are not removed within the time specified, or extension thereof, the contractor, at the option of the Department, may be placed in default upon written notice by the Department. The contractor may also be placed in default for performing his removal operations in a manner considered detrimental to, or reflecting discredit upon, the Department, or tending to create bad public relations.

In the event of default by the contractor, the Contract shall become void, except that any removal work partially performed by the contractor at the time of notice of default may be compensated for in an amount considered by the Department to be commensurate with the work performed, it being understood that such partial payment will be made at the option of, and in an amount determined by, the Department. In the event of the contractor being placed in default, the performance guaranty shall become subject to forfeiture to the Department, and the contractor will be ineligible for bidding on future projects.

Each building and appurtenance shall be removed to ground level. **CONCRETE SLABS AND FOUNDATION MATERIAL BELOW GROUND LEVEL SHALL ALSO BE COMPLETELY REMOVED BY THE CONTRACTOR, AND ANY RESULTING DEPRESSION IN THE GROUND SHALL BE FILLED WITH DIRT SO AS TO BE LEVEL WITH THE SURROUNDING TERRAIN.**

Removal shall include piping, wiring, plumbing and other accessories above and below ground which are attached to or are part of a building, shed, garage, outhouse and other appurtenance; however, removal of fences and shrubs shall be optional with the contractor. The contractor shall also remove and dispose of all trash, debris, house piers, steps, broken concrete, bricks and other materials that would interfere with grass cutting operations, and shall mow each lot.

PAYMENT: Upon satisfactory removal of buildings and appurtenances as designated in the "Bid Schedule" and acceptance of the sites by the Department, the Department shall pay the contractor the total bid amount and immediately return the performance guaranty to him/her.

PHOTOGRAPHS AND DESCRIPTIONS

Page 1



Parcel No. 54-4 A
Address: 1357 Martin Luther King Drive,
Shreveport, LA 71107
Description: 1600 Sq. Ft. Wood Framed Residence



Parcel No. 54-4 B
Address: 1357 Martin Luther King Drive,
Shreveport, LA 71107
Description: 1000 Sq. Ft. Wood Framed Residence

PHOTOGRAPHS AND DESCRIPTIONS

Page 2



Parcel No. 54-4 C
Address: 1357 Martin Luther King Drive,
Shreveport, LA 71107
Description: 2000 Sq Ft. Concrete Masonry
Building



Parcel No. 54-4 D
Address: 1357 Martin Luther King Drive,
Shreveport, LA 71107
Description: 80 Sq Ft. Wood Framed Structure

DEMOLITION OF BUILDINGS
STATE PROJECT NO. 455-09-0025 (H.003495) (PART 4) (Contract No. 18)

BID SCHEDULE

DEMOLITION AND/OR REMOVAL OF STATE-OWNED BUILDINGS AND APPURTENANCES
"WHERE IS - AS IS" LOCATED WITHIN THE RIGHT-OF-WAY LIMITS OF THE I-49 NORTH (I-220 TO
MARTIN LUTHER KING DRIVE)

PARCEL NO.	ADDRESS	BID AMOUNT
54-4 A, 54-4 B, 54-4 C, 54,4 D	1357 Martin Luther King Drive Shreveport, LA 71107	\$

TOTAL BID FOR DEMOLITION OF THE ABOVE LISTED BUILDINGS AND APPURTENANCES -----
-----\$ _____

NOTE: The buildings to be demolished shall be numbered by the Department and the number shown on each building shall correspond to the respective parcel number as shown in the "Bid Schedule" of the proposal.

FOR EXAMPLE: The buildings to be demolished under Parcel No. 54-4 A shall be numbered 54-4 A, Parcel No. 54-4 B shall be numbered 54-4 B, Parcel No. 54-4 C shall be numbered 54-4 C, and Parcel No. 54-4 D shall be numbered 54-4 D on the premises.

PROPOSAL

DEMOLITION OF BUILDINGS

STATE PROJECT NO. 455-09-0025 (H.003495) (PART 4) (Contract No. 18)

FEDERAL AID PROJECT NO.0906(517)

DEMOLITION OF STATE-OWNED BUILDINGS AND APPURTENANCES LOCATED WITHIN THE RIGHT-OF-WAY LIMITS OF THE I-49 NORTH (I-220 TO MARTIN LUTHER KING DRIVE)

CADDO PARISH

ROUTE I-49

Department of Transportation and Development
Baton Rouge, Louisiana

The undersigned offers to demolish for cash payment the state-owned buildings and appurtenances at the price bid for each parcel in the "Bid Schedule" attached hereto.

The undersigned certifies that he/she has examined the buildings and appurtenances offered for sale and has satisfied himself/herself as to their condition, and conditions to be encountered in removing said buildings and appurtenances.

The undersigned further certifies that he/she has examined the "Conditions of Demolition" attached hereto and agrees to abide by said conditions.

BIDDER'S NAME _____
(Please Print)

STREET ADDRESS _____

P.O. BOX _____ TELEPHONE _____

CITY _____ STATE _____ ZIP _____

SIGNATURE OF BIDDER _____

DATE _____

SOCIAL SECURITY NO. _____

TAX ID NO. (If applicable) _____

LOUISIANA DEPARTMENT OF
TRANSPORTATION AND DEVELOPMENT

PERFORMANCE BOND
DEMOLITION OF BUILDINGS

as Principal, and _____

a surety company authorized to do business in Louisiana, as Surety, are bound, in solido, unto the Department of Transportation and Development and unto all subcontractors, workmen, laborers, mechanics, and furnishers of materials and equipment, in the sum of

_____ DOLLARS (\$ _____),

payable in lawful money of the United States, and to this bond do obligate their heirs, successors and assigns.

The condition of this bond is such, that if the Principal performs the work as described in the proposal made and entered into on this

_____ day of _____, 20_____, to complete

State Project No. 455-09-0025 (H.003495) (PART 4) (Contract No. 18)

entitled "DEMOLITION OF BUILDINGS"

Route No. Route I-49, Caddo Parish

according to the stipulations in said proposal; pays all sums due on materials and supplies used and wage earned by workmen employed on the work; abides by the terms in said proposal at the time and in the manner and form specified; performs all labor and work; and furnishes all materials specified in said proposal in accordance with the terms of said proposal; this obligation shall be void; otherwise to remain in effect.

It is agreed by the parties to this Bond that the same is given in accordance with Louisiana Revised Statutes of 1950, Title 38, Chapter 10, Sections 2241 to 2248 inclusive.

In faith whereof, we have subscribed this obligation at Baton Rouge, Louisiana.

WITNESS OUR HANDS AND SEALS, this _____ day of

_____, 20_____.

WITNESSES

PRINCIPAL
By_____

Typed or Printed Name

Surety
By_____

I certify that I am, as of the date of this bond, a licensed Resident Agent of Louisiana in good standing with the Louisiana Insurance Commission and authorized to Countersign this bond on behalf of the surety identified herein.

By_____

Typed or Printed Name

Name of Agency

Address

CONTRACT
DEMOLITION OF BUILDINGS

This agreement is executed on this _____ day of _____, 20 _____,
between the Department of Transportation and Development, acting through the Real Estate Administrator,
Party of the First Part, hereinafter designated as "Department", and

_____, domiciled and doing business in
_____, Party of the Second Part, hereinafter designated as
"Contractor".

In consideration of the agreements herein contained, to be performed by the parties hereto and of the payments hereinafter agreed to be made, it is mutually agreed as follows:

The Contractor shall furnish all materials, equipment and labor and perform the required work, consisting of demolishing buildings as described on the Photographs and Descriptions sheet, in a thorough and workmanlike manner to the satisfaction of the Real Estate Administrator in accordance with the proposal filed with the Department dated _____, said proposal is made a part hereof as fully as if set out herein and hereby becomes a part of this Contract.

All removal activities shall be coordinated with Department's roadway contractor if project contract has been awarded.

The Contractor agrees to accept and the Department agrees to pay for the work at the price stipulated in said Proposal in lawful money of the United States at the time and in the manner set forth in the Conditions of Demolition.

Performance will begin on the date stipulated that the parcel will be vacated or as directed in writing by the District Property Manager. If a parcel is vacated by the occupant prior to the specified date the Contractor may request and the District Property Manager may authorize the Contractor to begin work on that parcel. In no event will the Contractor begin work prior to the occupant vacating the premises and all personal belongings of the occupant being removed. All work required in connection with the demolition will be completed within the time limit specified in the proposal subject to such extensions as may be authorized.

STATE PROJECT NO. 455-09-0025 (H.003495) (PART 4) (Contract No. 18)

Total cost of Parcel No(s). _____ is _____
_____ DOLLARS (\$_____).

This contract shall become effective on the date that it is signed by the Real Estate Administrator.

In witness whereof, the Contractor and the Real Estate Administrator have hereunto subscribed their names.

WITNESSES

Contractor

State of Louisiana
Department of
Transportation and Development

By _____
Real Estate Administrator

SAMPLE

STATE PROJECT NO. 455-09-0025 (H.003495) (PART 4) (Contract No. 18)

CONTRACT

DEMOLITION OF BUILDINGS

This agreement is executed on this _____ day of _____, 20____, between the Department of Transportation and Development, acting through the Real Estate Administrator, Party of the First Part, hereinafter designated as "Department", and

_____ (**Name of Contractor**), domiciled and doing business in _____ (**City, State**), Party of the Second Part, hereinafter designated as "Contractor".

In consideration of the agreements herein contained, to be performed by the parties hereto and of the payments hereinafter agreed to be made, it is mutually agreed as follows:

The Contractor shall furnish all materials, equipment and labor and perform the required work, consisting of demolishing buildings identified as described on the Photographs and Descriptions sheet, in a thorough and workmanlike manner to the satisfaction of the Real Estate Administrator in accordance with the proposal filed with the Department dated _____, said proposal is made a part hereof as fully as if set out herein and hereby becomes a part of this Contract.

All removal activities shall be coordinated with Department's roadway contractor if project contract has been awarded.

The Contractor agrees to accept and the Department agrees to pay for the work at the price stipulated in said Proposal in lawful money of the United States at the time and in the manner set forth in the Conditions of Demolition.

Performance will begin on the date stipulated that the parcel will be vacated or as directed in writing by the District Property Manager. If a parcel is vacated by the occupant prior to the specified date the Contractor may request and the District Property Manager may authorize the Contractor to begin work on Property Manager may authorize the Contractor to begin work on that parcel. In no event will the Contractor begin work prior to the occupant vacating the premises and all personal belongings of the occupant being removed. All work required in connection with the sale will be completed within the time limit specified in the proposal subject to such extensions as may be authorized.

SAMPLE

STATE PROJECT NO. 455-09-0025 (H.003495) (PART 4) (Contract No. 18)

Total cost of Parcel No(s). _____ is **(Bid price in words and numbers-- Example: TWO THOUSAND ONE HUNDRED ONE AND 50/100 DOLLARS (\$2,101.50)).**

This contract shall become effective on the date that it is signed by the Real Estate Administrator.

In witness whereof, the Contractor and the Real Estate Administrator have hereunto subscribed their names.

WITNESSES

(Signature)

(Signature)

Contractor

(Signature)

State of Louisiana
Department of
Transportation and Development

By _____

Real Estate Administrator



DID YOU REMEMBER TO ENCLOSE. . .

- 1. Bid Schedule?**
- 2. Proposal?**
- 3. Performance Guaranty? (** IN ONE OF THE FORMS STATED)**
- 4. Contract?**
- 5. Completed W-9 form?**

**D.O.T.D. MODIFIED FORM W-9
REQUEST FOR TAXPAYER IDENTIFICATION NUMBER AND CERTIFICATION**

Under Federal Income Tax Law, you (as payee) are subject to certain penalties as well as withholding tax at a 31 percent rate if you have not provided us with your correct taxpayer identification number. Please read this notice and the attached instructions carefully. If you do not provide us with your correct taxpayer identification number, you may be subject to a \$50.00 penalty imposed by the Internal Revenue Service. In addition, interest, dividends, and other payments that we make to you may be subject to backup withholding at a 31 percent rate.

Please supply the following information:

Are you an individual?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Are you Incorporated?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are you a Sole Proprietorship?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Are you a subsidiary of a Parent Company?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are you a Partnership?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Are you Federally tax exempt?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are you a Limited Liability Company (LLC)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Are you exempt from backup Withholding?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Individual's Social Security Number
____ - ____ - _____

Business Firm's Federal Employer Identification Number
____ - _____

Please check the box below that best describes the type of transaction for which we make payments to you. (Check more than one box if necessary).

Merchandise Rents Services Fees Professional Services Medical Services Attorney Fees
 Real Estate Transactions Other _____
Please Explain

PLEASE PRINT OR TYPE
Note: Name & SSN / EIN Must Agree With IRS Records (See Specific Instructions)

Individual Name: _____
Sole Proprietorship – Owner Name: _____
Limited Liability Co. (LLC)-Owner Name: _____
Business Name: _____
Partnership Name: _____
Corporation (Company Name): _____
Subsidiary Name (Doing Business As): _____
Remit to Address: _____

CERTIFICATION – Under penalties of perjury, I certify that:
(1) The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
(2) I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me I am no longer subject to backup withholdings, and
(3) I am a U. S. person (including a U. S. resident alien).

CERTIFICATION INSTRUCTIONS – You must cross out item (2) above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report interest and dividends on you tax return. For real estate transactions, item (2) does not apply. For mortgage interest paid, the acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See instructions on Page 2)

Name _____ Date _____
Please Print
Signature _____ Title _____ Telephone No. _____

Asbestos Survey Report

I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4 Structure A
Louisiana Department of Transportation and Development
Shreveport, Caddo Parish, Louisiana

September 14, 2012

Terracon Project No. EH127077.18



Prepared for:

Volkert, Inc.

Shreveport, Louisiana

Prepared by:

Terracon Consultants, Inc.

Baton Rouge, Louisiana

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities



September 14, 2012

Volkert, Inc.
1500 North Market Street, Suite B-100
Shreveport, Louisiana 71107

Attn: Ms. Kimberly Nelson

Re: SPN: 455-09-0025
Asbestos Survey
Parcel 54-4, Structure A
Shreveport, Caddo Parish, Louisiana
I-49 Segment K – I-220 to Martin Luther King Jr. Drive
Terracon Project No. EH127077.18

Dear Ms. Nelson:

The purpose of this report is to present the results of an asbestos survey performed on August 30, 2012, at the above referenced structure in Shreveport, Caddo Parish, Louisiana. This survey was conducted in accordance with the Contract for Asbestos Inspection, dated August 2012, between Terracon Consultants, Inc. (Terracon) and Volkert, Inc. We understand this survey was requested due to the planned demolition of the structure as part of the I-49 construction project in Caddo Parish.

Asbestos-containing materials (ACM) were identified. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service to the Volkert, Inc. If you have any questions regarding this report, please contact the undersigned at 225-344-6052.

Sincerely,

Terracon


Zack L. Dial, P.E.
Project Engineer


for Richard M. Simon
Senior Principal/Regional Manager



Terracon Consultants, Inc. 2822-B O'Neal Lane, Baton Rouge, LA
P [225]344-6052 F [225] 344-6346 terracon.com

Geotechnical

Environmental

Construction Materials

Facilities

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- Appendix B Confirmed Asbestos-Containing Materials
- Appendix C Asbestos Analytical Laboratory Data
- Appendix D Certifications
- Appendix E Photographs

EXECUTIVE SUMMARY – SPN: 455-09-0025, PARCEL 54-4, Structure A

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the vacant residential structure located on Parcel 54-4, identified as Structure A, in Shreveport, Caddo Parish, Louisiana. The property address is 1357 Martin Luther King Jr. Drive in Shreveport, Louisiana and Terracon understands the Louisiana Department of Transportation and Development (LDOTD) is the property owner. It is our understanding that LDOTD is planning to demolish the structure as part of the I-49 construction project in Caddo Parish. The purpose of this survey was to identify and sample suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in building components.

The survey was conducted on August 30, 2012, by Mr. Zack L. Dial, a Louisiana Department of Environmental Quality (LDEQ) certified asbestos inspector, in general accordance with the sampling protocols established in Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. Twenty (20) bulk samples were collected from seven (7) homogeneous areas of suspect ACM. No asbestos in concentrations of more than one percent (1%) was identified.

The following material was found to contain asbestos at a concentration of less than one percent (1%) and is therefore not considered asbestos-containing per applicable EPA and State of Louisiana guidelines:

- Drywall/joint compound composite

The drywall/joint compound was found throughout the structure. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities (including demolition) be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 fibers/cc air. The owners should notify the demolition contractor of the findings of this survey and the potential for asbestos fiber exposure during removal of this material during demolition activities. Demolition contractors are advised to comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition activities.

Please refer to the attached report for details.

ASBESTOS SURVEY REPORT

**I-49 Segment K – I-220 to Martin Luther King, Jr. Drive
SPN: 455-09-0025, Parcel 54-4 Structure A
Shreveport, Caddo Parish, Louisiana**

Terracon Project No. EH127077.18

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the vacant residential structure located on Parcel 54-4 in Shreveport, Caddo Parish, Louisiana. The survey was conducted on August 30, 2012 by Mr. Zack L. Dial; a LDEQ certified asbestos inspector, in accordance with the Volkert, Inc. Contract for Asbestos Inspection, August, 2012, between Terracon and Volkert, Inc. Interior and exterior building components were surveyed and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in EPA regulation 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA). Samples were delivered to an accredited laboratory for analysis by polarized light microscopy.

1.1 Project Objective

We understand this asbestos survey was requested due to the planned demolition of the structure. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities.

2.0 BUILDING DESCRIPTION

The structure is an approximate 1,600-square foot stand-alone one-story, wood-frame vacant residence on a pier and beam foundation with unknown construction date. The exterior consists of wood siding with wood frame windows and doors. Interior walls and ceilings consist of finished drywall and joint compound and floors were a variety of resilient sheet and tile flooring. No heating, ventilation, air-conditioning systems were observed.

3.0 FIELD ACTIVITIES

The survey was conducted by Mr. Zack L. Dial, a LDEQ certified asbestos inspector. A copy of Mr. Dial's asbestos inspector certificate is attached in Appendix D. The survey was conducted 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.

3.1 Visual Assessment

Our survey activities began with visual observation of the interior and exterior of the building to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture and date of application. Interior and exterior assessment was conducted throughout visually accessible areas of the building. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

Where applicable, Terracon lifted flooring in several areas in the building and did not observe additional floor coverings/layers except where noted in this report; however, as Terracon could not assess beneath all areas with flooring present, there may be isolated areas of additional suspect material present beneath carpet and floor tiles.

3.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. Sample team members 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.

Twenty (20) bulk samples were collected from seven (7) homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix A.

3.4 Sample Analysis

Bulk samples were submitted under chain of custody to Steve Moody Micro Services, LLC (SMMS) in Farmers Branch, Texas for analysis by polarized light microscopy with dispersion staining techniques per EPA methodology (40 CFR 763, Subpart E). The percentage of asbestos, where applicable, was determined by microscopical visual estimation. SMMS is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation

No. 102056) and Louisiana Environmental Laboratory Accreditation Program (LELAP Accreditation No.04089).

4.0 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 building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified 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.

The State of Louisiana has established the Louisiana Department of Environmental Quality Asbestos Handbook, which requires any asbestos-related activity in a state building or school to be performed by an individual or company accredited or licensed by the State of Louisiana, through the LDEQ. An asbestos-related activity consists of the disturbance (whether intentional or unintentional) or abatement of ACM, the performance of asbestos surveys, the development of management plans and response actions, asbestos project design, the collection or analysis of asbestos samples, monitoring for airborne asbestos or any other activity required to be accredited or licensed under Louisiana Department of Environmental Quality Asbestos Handbook.

In non-state, non-school buildings, the following activities must be performed by accredited individuals or licensed companies: asbestos surveys, asbestos abatement, and monitoring for airborne asbestos. However, the EPA Model Accreditation Program (MAP) requires that a project design for the abatement of friable ACM (greater than a small-scale, short duration activity) be written by an EPA-accredited project designer.

RACM must be removed prior to renovation or demolition activities that will disturb the materials. The owner or operator must provide the LDEQ with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of RACM must be conducted by a State of Louisiana licensed asbestos

abatement contractor. In addition, third party air monitoring must be performed prior to, during, and following the abatement.

The OSHA Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. 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.

5.0 FINDINGS AND RECOMMENDATIONS

No asbestos in concentrations of more than one percent (1%) was identified.

The following material was found to contain asbestos at a concentration of less than one percent (1%) and is therefore not considered asbestos-containing per applicable EPA and State of Louisiana guidelines:

- Drywall/joint compound composite

The drywall/joint compound was found throughout the structure. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities (including demolition) be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 fibers/cc air. The owners should notify the demolition contractor of the findings of this survey and the potential for asbestos fiber exposure during removal of this material during demolition activities. Demolition contractors are advised to comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition activities.

It should be noted that suspect materials, other than those identified during this survey may exist within the building. Should suspect materials other than those which were identified during this survey be uncovered during the demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

A summary of the classification, condition and approximate quantity of identified ACM are presented in Appendix B. Laboratory analytical reports are included in Appendix C.

6.0 GENERAL COMMENTS

This asbestos survey was 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 survey of the building. The information contained in this report is relevant to the date on which this survey 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 Louisiana Department of Transportation and Development 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, expressed or implied is made.

APPENDIX A
ASBESTOS SURVEY SAMPLE SUMMARY
I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4 Structure A
Shreveport, Caddo Parish, Louisiana
Terracon Project No. EH127077.18

HA	Sample No.	Description	Sample Location
1	54-4-1	Popcorn ceiling texture	Throughout
1	54-4-2	Popcorn ceiling texture	Throughout
1	54-4-3	Popcorn ceiling texture	Throughout
2	54-4-4	12"x12" marbled floor tile	Kitchen, hall, laundry room
2	54-4-5	12"x12" marbled floor tile	Kitchen, hall, laundry room
2	54-4-6	12"x12" marbled floor tile	Kitchen, hall, laundry room
3	54-4-7	Tan sheet floor	Kitchen
3	54-4-8	Tan sheet floor	Kitchen
3	54-4-9	Tan sheet floor	Kitchen
4	54-4-10	White sheet floor	Hall
4	54-4-11	White sheet floor	Hall
4	54-4-12	White sheet floor	Hall
5	54-4-13	Brown sheet floor	Hall
5	54-4-14	Brown sheet floor	Hall
5	54-4-15	Brown sheet floor	Hall
6	54-4-16	Drywall and joint compound	Throughout
6	54-4-17	Drywall and joint compound	Throughout
6	54-4-18	Drywall and joint compound	Throughout
7	54-4-19	Roof shingle	Roof
7	54-4-20	Roof shingle	Roof

APPENDIX B

CONFIRMED ASBESTOS CONTAINING MATERIAL
I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4 Structure A
Shreveport, Caddo Parish, Louisiana
Terracon Project No. EH127077.18

HA No.	Description	Material Location	Percent/Type Asbestos	NESHAP Classification	Condition	Estimated Quantity*
6	Drywall and joint compound	Throughout	<1%C	Non-ACM per NESHAP	Good	1,500 ft ²

* Quantities are estimates only.

lf = linear feet

ft² = square feet

C = Chrysotile asbestos

APPENDIX C
ASBESTOS LABORATORY ANALYTICAL REPORTS

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client :	Terracon - Baton Rouge, LA	Lab Job No. : 12B-10640	002
Project :	1-49 Subsegment J	Report Date : 09/12/2012	
Project # :	EH127077	Sample Date : Not Provided	
Identification :	Asbestos, Bulk Sample Analysis		
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

Page 1 of 2

On 8/31/2012, twenty (20) bulk material samples were submitted by Zack Dial of Terracon - Baton Rouge, LA for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
54-4-01	Ceiling Texture (Popcorn), Throughout	None Detected - Acoustic Texture
54-4-02	Ceiling Texture (Popcorn), Throughout	None Detected - Joint Compound None Detected - Acoustic Texture
54-4-03	Ceiling Texture (Popcorn), Throughout	None Detected - Acoustic Texture
54-4-04	12" x 12" Floor Tile (Marbled), Kitchen	None Detected - Floor Tile None Detected - Yellow Mastic
54-4-05	12" x 12" Floor Tile (Marbled), Hall	None Detected - Floor Tile None Detected - Yellow Mastic None Detected - Sheet Flooring None Detected - Fiber Backing
54-4-06	12" x 12" Floor Tile (Marbled), Laundry Room	None Detected - Floor Tile None Detected - Clear Mastic
54-4-07	Sheet Floor (Tan), Kitchen	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4-08	Sheet Floor (Tan), Kitchen	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4-09	Sheet Floor (Tan), Kitchen	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4-10	Sheet Floor (White), Perimeter, Hall	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4-11	Sheet Floor (White), Perimeter, Hall	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4-12	Sheet Floor (White), Perimeter, Hall	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4-13	Sheet Floor (Brown), Hall	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4-14	Sheet Floor (Brown), Hall	None Detected - Sheet Flooring None Detected - Fiber Backing

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client :	Terracon - Baton Rouge, LA	Lab Job No. : 12B-10640	002
Project :	1-49 Subsegment J	Report Date : 09/12/2012	
Project # :	EH127077	Sample Date : Not Provided	
Identification :	Asbestos, Bulk Sample Analysis		
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

Page 2 of 2

On 8/31/2012, twenty (20) bulk material samples were submitted by Zack Dial of Terracon - Baton Rouge, LA for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
54-4-15	Sheet Floor (Brown), Hall	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4-16	Drywall and Joint Compound, Throughout	None Detected - Drywall Material None Detected - Joint Compound
54-4-17	Drywall and Joint Compound, Throughout	None Detected - Drywall Material None Detected - Joint Compound
54-4-18	Drywall and Joint Compound, Throughout	None Detected - Drywall Material 3% Chrysotile - Old Joint Compound None Detected - New Joint Compound <1% Chrysotile - Sample Composite
54-4-19	Roof Shingle, Roof	None Detected - Roofing Shingle
54-4-20	Roof Shingle, Roof	None Detected - Roofing Shingle

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. Results may not be reproduced except in full. This test report relates only to the samples tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056.



Analyst(s): Jody Thompson
 Lab Manager : Bruce Crabb
 Lab Director : Steve Moody

Approved Signatory : *Bruce Crabb*
 Approved Signatory : *Steve Moody*

Thank you for choosing Steve Moody Micro Services

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : 1-49 Subsegment J
 Project # : EH127077

Lab Job No. : 12B-10640
 Report Date : 09/12/2012

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-4-01	DW Paper (Tan)	10%	Cellulose Fibers	100%	09/07	JT
	Acoustic Texture (White)	90%	Synthetic Foam	30%		
54-4-02	DW Paper / Tape (Tan / White)	10%	Cellulose Fibers	100%	09/07	JT
	Joint Compound (White)	10%	Gypsum / Talc / Binders	100%		
	Acoustic Texture (White)	80%	Synthetic Foam	30%		
54-4-03	DW Paper (Tan)	10%	Cellulose Fibers	100%	09/07	JT
	Acoustic Texture (White)	90%	Synthetic Foam	30%		
			Calcite / Talc / Binders	70%		
54-4-04	Floor Tile (Off-White)	95%	Calcite / Vinyl Binders	100%	09/07	JT
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
54-4-05	Floor Tile (Off-White)	55%	Calcite / Vinyl Binders	100%	09/07	JT
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
	Sheet Flooring (Light Tan)	25%	Synthetic Foam	70%		
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	15%	Cellulose Fibers	50%		
54-4-06	Floor Tile (Tan/Grey)	95%	Calcite / Vinyl Binders	100%	09/07	JT
	Clear Mastic (Clear)	5%	Glue Binders	100%		
54-4-07	Sheet Flooring (Light Tan)	50%	Synthetic Foam	70%	09/07	JT
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Calcite / Binders	45%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : 1-49 Subsegment J
 Project # : EH127077

Lab Job No. : 12B-10640
 Report Date : 09/12/2012

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-4-08	Sheet Flooring (Light Tan)	50%	Synthetic Foam	70%	09/07	JT
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Calcite / Binders	45%		
54-4-09	Sheet Flooring (Light Tan)	50%	Synthetic Foam	70%	09/07	JT
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Calcite / Binders	45%		
54-4-10	Sheet Flooring (Tan)	50%	Cellulose Fibers	50%	09/07	JT
			Calcite / Vinyl Binders	50%		
	Fiber Backing (Black)	50%	Cellulose Fibers	85%		
			Tar Binders	15%		
54-4-11	Sheet Flooring (Tan)	50%	Cellulose Fibers	50%	09/07	JT
			Calcite / Vinyl Binders	50%		
	Fiber Backing (Black)	50%	Cellulose Fibers	85%		
			Tar Binders	15%		
54-4-12	Sheet Flooring (Tan)	50%	Cellulose Fibers	50%	09/07	JT
			Calcite / Vinyl Binders	50%		
	Fiber Backing (Black)	50%	Cellulose Fibers	85%		
			Tar Binders	15%		
54-4-13	Sheet Flooring (Brown)	50%	Cellulose Fibers	50%	09/07	JT
			Calcite / Vinyl Binders	50%		
	Fiber Backing (Black)	50%	Cellulose Fibers	85%		
			Tar Binders	15%		
54-4-14	Sheet Flooring (Brown)	50%	Cellulose Fibers	50%	09/07	JT
			Calcite / Vinyl Binders	50%		
	Fiber Backing (Black)	50%	Cellulose Fibers	85%		
			Tar Binders	15%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : 1-49 Subsegment J
 Project # : EH127077

Lab Job No. : 12B-10640
 Report Date : 09/12/2012

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-4-15	Sheet Flooring (Brown)	50%	Cellulose Fibers	50%	09/07	JT
	Fiber Backing (Black)	50%	Calcite / Vinyl Binders	50%		
54-4-16	Drywall Material (White)	85%	Cellulose Fibers	85%	09/07	JT
	DW Paper / Tape (Tan / White)	5%	Cellulose Fibers	100%		
54-4-17	Joint Compound (White)	10%	Calcite / Talc / Binders	100%	09/07	JT
	Drywall Material (White)	85%	Cellulose Fibers	2%		
54-4-18	DW Paper (Tan)	5%	Gypsum / Binders	98%	09/07	JT
	Joint Compound (White)	10%	Cellulose Fibers	100%		
54-4-19	Drywall Material (White)	75%	Cellulose Fibers	2%	09/07	JT
	DW Paper / Tape (Tan / White)	5%	Gypsum / Binders	98%		
54-4-20	Old Joint Compound (Off-White)	10%	Cellulose Fibers	100%	09/07	JT
	New Joint Compound (White)	10%	Chrysotile	3%		
54-4-21	Sample Composite (White)	10%	Calcite / Talc / Binders	97%	09/07	JT
	Sand Layer (Black)	25%	Calcite / Talc / Binders	100%		
54-4-22	Roofing Shingle (Black)	75%	Chrysotile	<1%	09/07	JT
	Sand Layer (White)	25%	Cellulose Fibers	2%		
54-4-23	Roofing Shingle (Black)	75%	Cellulose Fibers	2%	09/07	JT
	Sand Layer (White)	25%	Calcite / Gypsum Binders	98%		
54-4-24	Aggregate	100%	Aggregate	100%	09/07	JT
	Roofing Shingle (Black)	75%	Glass Wool Fibers	20%		
54-4-25	Roofing Shingle (Black)	75%	Calcite	35%	09/07	JT
	Roofing Shingle (Black)	75%	Tar Binders	45%		
54-4-26	Roofing Shingle (Black)	75%	Aggregate	100%	09/07	JT
	Roofing Shingle (Black)	75%	Glass Wool Fibers	20%		
54-4-27	Roofing Shingle (Black)	75%	Calcite	35%	09/07	JT
	Roofing Shingle (Black)	75%	Tar Binders	45%		

Chain of Custody

Page 1 of 1



Lab Job # LAB-10640 PLM 20
 Lab Job # _____
 Lab Job # _____

****Please call in advance for immediate, after-hour, & weekend pricing & availability.****

Turnaround of Culture Samples subject to Culture Growth

ASBESTOS PLM

Bulk 1 day 2 day 3 day 5 day Immediate
 Analyze All Positive Stop

LEAD Paint / Soil / Wipe 1 day 2 day 3 day 5 day Immediate

PCM Air (7400) 1 day 2 day 3 day 5 day Immediate

TOTAL DUST (0500/0600) 1 day 2 day

MOLD

Non-culture (Tape / Bulk / Air) 1 day 2 day Immediate
 Air Standard Profile Air Expanded Profile

Analyze Blanks Yes No

Culture (Swab / Bulk / Plate) 7-14 day

ASBESTOS TEM

Air AHERA Method 6 hr 12hr 24 hr
 Air 7402 (Modified) 1 day 2 day 3 day
 Bulk/Wipe/Micro Vac 1 day 2 day 3 day
 Water 1 day 2 day 3 day
 Analyze Blanks Yes No

BACTERIA

Heterotrophic Plate Count (HPC) 3 day
 HPC + Gram Stain 3 day 5 day
 HPC + 3 Gram Neg ID 6-8 day
 HPC + 5 Gram Neg ID 6-8 day
 Fecal Coliform (MPN) 3 day
 Total Coliform & E Coli (P/A) 2-3 day

Billing Company / City: Terracore

of Samples: _____

Submitter / Company: LEM DIAZ

Sample Date: _____

Project: EH127077- 1-49 subsegment J

Project #: EH127077

Contact Information: Name: LEM DIAZ

Phone #: _____

E-mail Results to: LEMDIAZ@terracore.com

Mobile #: 225-810-2069

Invoice Address: 2822-B O'neal Lane, Baton Rouge

P.O. #: EH127077-18

--- Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged samples or excessive administrative requests may incur additional fees---

Notes: _____

Sample #	Sample Description	Vol. / Area if applicable	Location / Notes
544-01-03	Popcorn Ceiling Texture	1,000 ft ²	Throughout
544-04-02	12X12 MARBLED FLOOR TILE	250 ft ²	KITCHEN/HALL/LAUNDRY ROOM
544-07-01	TAN SHEET FLOOR	200 ft ²	KITCHEN
544-10-12	White SHEET FLOOR (Perimeter)	50 ft ²	HALL
544-13-15	Brown sheet floor	40 ft ²	HALL
544-16-19	Drywall & joint compound	500 ft ²	Throughout
544-20	Roof Shingle	1,500 ft ²	Roof

Released By: <u>[Signature]</u>	Date / Time: <u>8/30/1600</u>	Received By: <u>[Signature]</u>	Date / Time: <u>8/31/12 9:50 AM</u>
Released By: _____	Date / Time: _____	Received By: _____	Date / Time: _____

APPENDIX D
CERTIFICATIONS

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Zack Lem Dial III

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

ASBESTOS INSPECTOR

Accreditation No. 31136444

Date of Issuance 5/15/2012

AI No. 136444

Expiration 4/27/2013

Failure to comply with all applicable provisions of La. R.S. 2025:E. (1)(a) and La. R.S. 2025:F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.

Christopher Mangum
Permit Support Services Division
Office of Environmental Services

APPENDIX E
PHOTOGRAPHS



Photo 1 View of subject property.



Photo 2 View of interior finishes and conditions.



Photo 3 View of interior finishes and conditions.



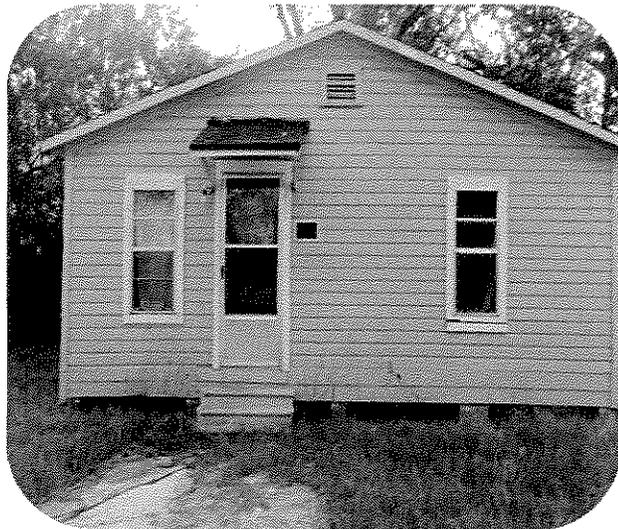
Photo 4 View of interior finishes and conditions.

Asbestos Survey Report

I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4, Structure B
Louisiana Department of Transportation and Development
Shreveport, Caddo Parish, Louisiana

September 14, 2012

Terracon Project No. EH127077.18



Prepared for:

Volkert, Inc.

Shreveport, Louisiana

Prepared by:

Terracon Consultants, Inc.

Baton Rouge, Louisiana

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities



September 14, 2012

Volkert, Inc.
1500 North Market Street, Suite B-100
Shreveport, Louisiana 71107

Attn: Ms. Kimberly Nelson

Re: SPN: 455-09-0025
Asbestos Survey
Parcel 54-4, Structure B
Shreveport, Caddo Parish, Louisiana
I-49 Segment K – I-220 to Martin Luther King Jr. Drive
Terracon Project No. EH127077.18

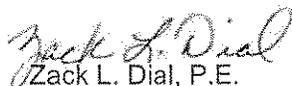
Dear Mr. Earls:

The purpose of this report is to present the results of an asbestos survey performed on August 30, 2012, at the above referenced structure in Shreveport, Caddo Parish, Louisiana. This survey was conducted in accordance with the Contract for Asbestos Inspection, dated August 2012, between Terracon Consultants, Inc. (Terracon) and Volkert, Inc.. We understand this survey was requested due to the planned demolition of the structure as part of the I-49 construction project in Caddo Parish.

No asbestos-containing materials (ACM) were identified. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service to Volkert, Inc. If you have any questions regarding this report, please contact the undersigned at 225-344-6052.

Sincerely,
Terracon


Zack L. Dial, P.E.
Project Engineer


Richard M. Simon
Senior Principal/Regional Manager



Terracon Consultants, Inc. 2822-B O'Neal Lane, Baton Rouge, LA
P [225]344-6052 F [225] 344-6346 terracon.com

TABLE OF CONTENTS

EXECUTIVE SUMMARY – SPN: 455-09-0025, PARCEL 54-4, STRUCTURE B

1.0	INTRODUCTION	1
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5.0	FINDINGS AND RECOMMENDATIONS	4
6.0	GENERAL COMMENTS	5

LIST OF APPENDICES

- Appendix A Asbestos Survey Sample Summary
- Appendix B Asbestos Analytical Laboratory Data
- Appendix C Certifications
- Appendix D Photographs

EXECUTIVE SUMMARY – SPN: 455-09-0025, PARCEL 54-4, STRUCTURE B

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the vacant residence located on Parcel 54-4, and identified as Structure B (behind Structure A), in Shreveport, Caddo Parish, Louisiana. The property address is 1357 Martin Luther King, Jr. Drive, Shreveport, LA 71107 and Terracon understands the Louisiana Department of Transportation and Development (LDOTD) is the property owner. It is our understanding that LDOTD is planning to demolish the structure as part of the I-49 construction project in Caddo Parish. The purpose of this survey was to identify and sample suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in building components.

The survey was conducted on August 30, 2012, by Mr. Zack L. Dial, a Louisiana Department of Environmental Quality (LDEQ) certified asbestos inspector, in general accordance with the sampling protocols established in Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. Seventeen (17) bulk samples were collected from six (6) homogeneous areas of suspect ACM. No asbestos was detected in any of the samples submitted for laboratory analysis.

Please refer to the attached report for details.

ASBESTOS SURVEY REPORT

I-49 Segment K – I-220 to Martin Luther King, Jr. Drive
SPN: 455-09-0025, Parcel 54-4, Structure B
Shreveport, Caddo Parish, Louisiana

Terracon Project No. EH127077.18

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the vacant residence located on Parcel 54-4, and identified as Structure B (behind Structure A), in Shreveport, Caddo Parish, Louisiana. The property address is 1357 Martin Luther King, Jr. Drive, Shreveport, LA 71107. The survey was conducted on August 30, 2012 by Mr. Zack L. Dial; an LDEQ certified asbestos inspector, in accordance with the Volkert, Inc. Contract for Asbestos Inspection, August, 2012, between Terracon and Volkert, Inc. Interior and exterior building components were surveyed and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in EPA regulation 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA). Samples were delivered to an accredited laboratory for analysis by polarized light microscopy.

1.1 Project Objective

We understand this asbestos survey was requested due to the planned demolition of the structure. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities.

2.0 BUILDING DESCRIPTION

The structure is an approximate 1,000-square foot, stand-alone one-story, wood-frame vacant residence on a pier and beam foundation with unknown construction date. The exterior consists of wood siding with wood frame windows and no doors. The structure is housed under an asphaltic shingle roof. Interior walls and ceilings consist of drywall and joint compound. Flooring is a combination of sheet flooring. No heating, ventilation, and air conditioning systems were observed.

3.0 FIELD ACTIVITIES

The survey was conducted by Mr. Zack L. Dial, a LDEQ certified asbestos inspector. A copy of Mr. Dial's asbestos inspector certificate is attached in Appendix C. The survey was conducted 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.

3.1 Visual Assessment

Our survey activities began with visual observation of the interior and exterior of the building to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture and date of application. Interior and exterior assessment was conducted throughout visually accessible areas of the building. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

Where applicable, Terracon lifted flooring in several areas in the building and did not observe additional floor coverings/layers except where noted in this report; however, as Terracon could not assess beneath all areas with flooring present, there may be isolated areas of additional suspect material present beneath carpet and floor tiles.

3.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. Sample team members 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.

Seventeen (17) bulk samples were collected from six (6) homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix A.

3.4 Sample Analysis

Bulk samples were submitted under chain of custody to Steve Moody Micro Services, LLC (SMMS) in Farmers Branch, Texas for analysis by polarized light microscopy with dispersion staining techniques per EPA methodology (40 CFR 763, Subpart E). The percentage of asbestos, where applicable, was determined by microscopical visual estimation. SMMS is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 102056) and Louisiana Environmental Laboratory Accreditation Program (LELAP Accreditation No.04089).

4.0 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 building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified 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.

The State of Louisiana has established the Louisiana Department of Environmental Quality Asbestos Handbook, which requires any asbestos-related activity in a state building or school to be performed by an individual or company accredited or licensed by the State of Louisiana, through the LDEQ. An asbestos-related activity consists of the disturbance (whether intentional or unintentional) or abatement of ACM, the performance of asbestos surveys, the development of management plans and response actions, asbestos project design, the collection or analysis of asbestos samples, monitoring for airborne asbestos or any other activity required to be accredited or licensed under Louisiana Department of Environmental Quality Asbestos Handbook.

In non-state, non-school buildings, the following activities must be performed by accredited individuals or licensed companies: asbestos surveys, asbestos abatement, and monitoring for airborne asbestos. However, the EPA Model Accreditation Program (MAP) requires that a project

design for the abatement of friable ACM (greater than a small-scale, short duration activity) be written by an EPA-accredited project designer.

RACM must be removed prior to renovation or demolition activities that will disturb the materials. The owner or operator must provide the LDEQ with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of RACM must be conducted by a State of Louisiana licensed asbestos abatement contractor. In addition, third party air monitoring must be performed prior to, during, and following the abatement.

The OSHA Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. 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.

5.0 FINDINGS AND RECOMMENDATIONS

No asbestos was detected in any of the samples submitted for laboratory analysis.

It should be noted that suspect materials, other than those identified during this survey may exist within the building. Should suspect materials other than those which were identified during this survey be uncovered during the demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

Laboratory analytical reports are included in Appendix B.

6.0 GENERAL COMMENTS

This asbestos survey was 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 survey of the building. The information contained in this report is relevant to the date on which this survey 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 Louisiana Department of Transportation and Development 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, expressed or implied is made.

APPENDIX A

ASBESTOS SURVEY SAMPLE SUMMARY
I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4, Structure B
Shreveport, Caddo Parish, Louisiana
Terracon Project No. EH127077.18

HA	Sample No.	Description	Sample Location
1	54-4B-1	Brown sheet flooring	Kitchen, living room
1	54-4B-2	Brown sheet flooring	Kitchen, living room
1	54-4B-3	Brown sheet flooring	Kitchen, living room
2	54-4B-4	Tan sheet flooring	Bathroom
2	54-4B-5	Tan sheet flooring	Bathroom
2	54-4B-6	Tan sheet flooring	Bathroom
3	54-4B-7	White sheet flooring	Hall
3	54-4B-8	White sheet flooring	Hall
3	54-4B-9	White sheet flooring	Hall
4	54-4B-10	Cream sheet flooring	Bedrooms
4	54-4B-11	Cream sheet flooring	Bedrooms
4	54-4B-12	Cream sheet flooring	Bedrooms
5	54-4B-13	Drywall and joint compound	Throughout
5	54-4B-14	Drywall and joint compound	Throughout
5	54-4B-15	Drywall and joint compound	Throughout
6	54-4B-16	Roof shingles	Roof
6	54-4B-17	Roof shingles	Roof

APPENDIX B
ASBESTOS LABORATORY ANALYTICAL REPORTS

1

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : 1-49 Subsegment J
 Project # : EH127077 Sample Date : Not Provided
 Identification : Asbestos, Bulk Sample Analysis
 Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
 EPA Method 600 / R-93 / 116

Lab Job No. : 12B-10639
 Report Date : 09/07/2012

Page 1 of 2

On 8/31/2012, seventeen (17) bulk material samples were submitted by Zack Dial of Terracon - Baton Rouge, LA for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
54-4B-01	Sheet Flooring (Brown), Kitchen / Living Room	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4B-02	Sheet Flooring (Brown), Kitchen / Living Room	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4B-03	Sheet Flooring (Brown), Kitchen / Living Room	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4B-04	Sheet Flooring (Tan), Bathroom	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4B-05	Sheet Flooring (Tan), Bathroom	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4B-06	Sheet Flooring (Tan), Bathroom	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4B-07	Sheet Flooring (White), Hall	None Detected - Sheet Flooring No Fiber Backing
54-4B-08	Sheet Flooring (White), Hall	None Detected - Sheet Flooring No Fiber Backing
54-4B-09	Sheet Flooring (White), Hall	None Detected - Sheet Flooring No Fiber Backing
54-4B-10	Sheet Flooring (Cream), Bedrooms	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4B-11	Sheet Flooring (Cream), Bedrooms	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4B-12	Sheet Flooring (Cream), Bedrooms	None Detected - Sheet Flooring None Detected - Fiber Backing
54-4B-13	Drywall and Joint Compound, Throughout	None Detected - Drywall Material None Detected - Joint Compound
54-4B-14	Drywall and Joint Compound, Throughout	None Detected - Drywall Material None Detected - Joint Compound

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : 1-49 Subsegment J
 Project # : EH127077 Sample Date : Not Provided
 Identification : Asbestos, Bulk Sample Analysis
 Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
 EPA Method 600 / R-93 / 116

Lab Job No. : 12B-10639
 Report Date : 09/07/2012

Page 2 of 2

On 8/31/2012, seventeen (17) bulk material samples were submitted by Zack Dial of Terracon - Baton Rouge, LA for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
54-4B-15	Drywall and Joint Compound, Throughout	None Detected - Drywall Material None Detected - Joint Compound
54-4B-16	Roof Shingle, Roof	None Detected - Roofing Shingle
54-4B-17	Roof Shingle, Roof	None Detected - Roofing Shingle

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. Results may not be reproduced except in full. This test report relates only to the samples tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056.



Analyst(s): Beverly Lorenzana

Lab Manager : Bruce Crabb

Lab Director : Steve Moody

Approved Signatory : *Bruce Crabb*

Approved Signatory : *Steve Moody*

Thank you for choosing Steve Moody Micro Services

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : I-49 Subsegment J
 Project # : EH127077

Lab Job No. : 12B-10639
 Report Date : 09/07/2012

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-4B-01	Sheet Flooring (Brown)	50%	Synthetic Foam	70%	09/07	BL
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Calcite / Binders	45%		
54-4B-02	Sheet Flooring (Brown)	45%	Synthetic Foam	70%	09/07	BL
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Calcite / Binders	45%		
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
54-4B-03	Sheet Flooring (Brown)	45%	Synthetic Foam	70%	09/07	BL
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Calcite / Binders	45%		
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
54-4B-04	Sheet Flooring (Tan)	50%	Synthetic Foam	70%	09/07	BL
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Calcite / Binders	45%		
54-4B-05	Sheet Flooring (Tan)	50%	Synthetic Foam	70%	09/07	BL
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Calcite / Binders	45%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : 1-49 Subsegment J
 Project # : EH127077

Lab Job No. : 12B-10639
 Report Date : 09/07/2012

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-4B-06	Sheet Flooring (Tan)	50%	Synthetic Foam	70%	09/07	BL
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Calcite / Binders	45%		
54-4B-07	Sheet Flooring (White)	100%	Glass Wool Fibers	5%	09/07	BL
			Synthetic Foam	70%		
			Vinyl Binders	25%		
	No Fiber Backing					
54-4B-08	Sheet Flooring (White)	100%	Glass Wool Fibers	5%	09/07	BL
			Synthetic Foam	70%		
			Vinyl Binders	25%		
	No Fiber Backing					
54-4B-09	Sheet Flooring (White)	100%	Glass Wool Fibers	5%	09/07	BL
			Synthetic Foam	70%		
			Vinyl Binders	25%		
	No Fiber Backing					
54-4B-10	Sheet Flooring (Cream)	50%	Synthetic Foam	70%	09/07	BL
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
54-4B-11	Sheet Flooring (Cream)	50%	Synthetic Foam	70%	09/07	BL
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
54-4B-12	Sheet Flooring (Cream)	50%	Synthetic Foam	70%	09/07	BL
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	45%	Cellulose Fibers	50%		
	Cream Mastic (Cream)	5%	Glue Binders	100%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab No. 102056
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : I-49 Subsegment J
 Project # : EH127077

Lab Job No. : 12B-10639
 Report Date : 09/07/2012

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-4B-13	Drywall Material (White)	90%	Cellulose Fibers	3%	09/07	BL
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	5%	Cellulose Fibers	100%		
	Joint Compound (White)	5%	Calcite / Talc / Binders	100%		
54-4B-14	Drywall Material (White)	85%	Cellulose Fibers	3%	09/07	BL
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	5%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		
54-4B-15	Drywall Material (White)	85%	Glass Wool Fibers	2%	09/07	BL
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	5%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		
54-4B-16	Sand Layer (Black)	25%	Aggregate	100%	09/07	BL
	Roofing Shingle (Black)	75%	Glass Wool Fibers	20%		
			Calcite	35%		
			Tar Binders	45%		
54-4B-17	Sand Layer (Black)	25%	Aggregate	100%	09/07	BL
			Glass Wool Fibers	20%		
			Calcite	35%		
	Roofing Shingle (Black)	75%	Tar Binders	45%		

Chain of Custody

Page 1 of 1



Lab Job # 12B-10639 PLM 17
 Lab Job # _____
 Lab Job # _____

****Please call in advance for immediate, after-hour, & weekend pricing & availability.****
Turnaround of Culture Samples subject to Culture Growth

ASBESTOS PLM

Bulk 1 day 2 day 3 day 5 day Immediate
 Analyze All Positive Stop

LEAD Paint / Soil / Wipe 1 day 2 day 3 day 5 day Immediate
PCM Air (7400) 1 day 2 day 3 day 5 day Immediate
TOTAL DUST (0500/0600) 1 day 2 day

MOLD

Non-culture (Tape / Bulk / Air) 1 day 2 day Immediate
 Air Standard Profile Air Expanded Profile
 Analyze Blanks Yes No
 Culture (Swab / Bulk / Plate) 7-14 day

ASBESTOS TEM

Air AHERA Method 6 hr 12hr 24 hr
 Air 7402 (Modified) 1 day 2 day 3 day
 Bulk/Wipe/Micro Vac 1 day 2 day 3 day
 Water 1 day 2 day 3 day
 Analyze Blanks Yes No

BACTERIA

Heterotrophic Plate Count (HPC) 3 day
 HPC + Gram Stain 3 day 5 day
 HPC + 3 Gram Neg ID 6-8 day
 HPC + 5 Gram Neg ID 6-8 day
 Fecal Coliform (MPN) 3 day
 Total Coliform & E Coli (P/A) 2-3 day

Billing Company / City: Terracon # of Samples: _____
 Submitter / Company: LEM DIAL Sample Date: _____
 Project: 1-49 Subsegment J Project #: EH127077
 Contact Information: Name: LEM DIAL Phone #: _____
 E-mail Results to: ZLDIAL@terracon.com Mobile #: 225-810-2069
 Invoice Address: 2822-B D'Almeida Hwy, Baton Rouge, LA 70844 P.O. #: EH127077.18

--- Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged samples or excessive administrative requests may incur additional fees---

Notes:

Sample #	Sample Description	Vol. / Area if applicable	Location / Notes
54-4B- ⁸¹ ₀₂	BROWN SHEET FLOORING	300sq	Kitchen / LIVING ROOM
54-4B- ⁸² ₀₆	TAN SHEET FLOORING	75sq	BATHROOM
54-4B- ⁰⁸ ₀₉	White Sheet flooring	40sq	HALL
54-4B- ¹⁰ ₁₂	Cream sheet flooring	250sq	BED ROOMS
54-4B- ¹³ ₁₅	Drywall & JOINT COMPOUND	800sq	throughout
54-4B- ¹⁶ ₁₇	Roof Shingle	800sq	Roof

Released By: <u>John L. Dial</u>	Date / Time: <u>8/30/1600</u>	Received By: <u>[Signature]</u>	Date / Time: <u>8/21/12 9:50AM</u>
Released By: _____	Date / Time: _____	Received By: _____	Date / Time: _____

APPENDIX C
CERTIFICATIONS

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Zack Lem Dial III

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

ASBESTOS INSPECTOR

Accreditation No. 31136444

AI No. 136444

Date of Issuance 5/15/2012

Expiration 4/27/2013

Failure to comply with all applicable provisions of La. R.S. 2025:E. (1)(a) and La. R.S. 2025:F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.

Christopher Mangum
Permit Support Services Division
Office of Environmental Services

APPENDIX D
PHOTOGRAPHS



Photo 1 View of subject property.



Photo 2 View of interior finishes and conditions.

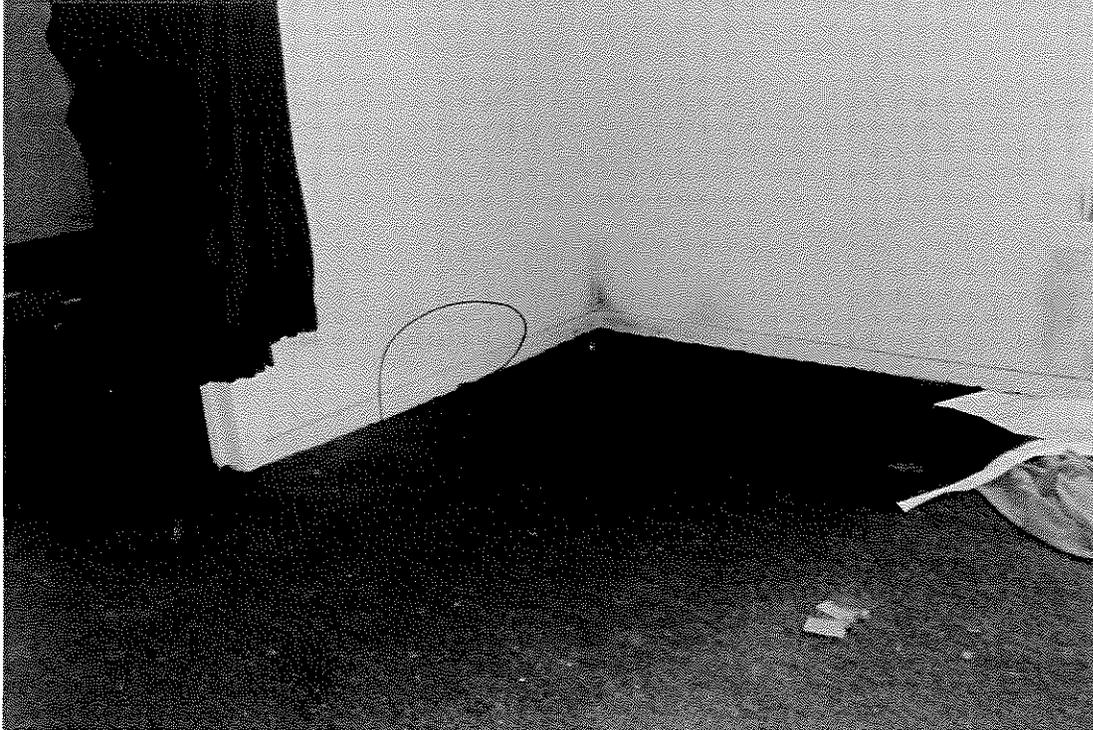


Photo 3 View of interior finishes and conditions.



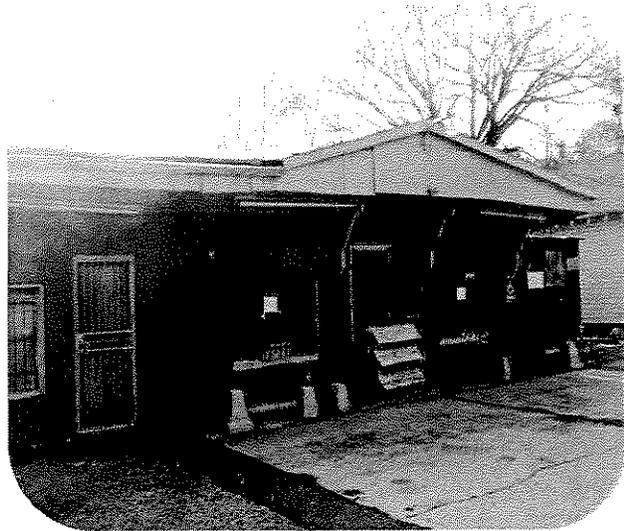
Photo 4 View of interior finishes and conditions.

Asbestos Survey Report

I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4, Structure C
Louisiana Department of Transportation and Development
Shreveport, Caddo Parish, Louisiana

January 22, 2013

Terracon Project No. EH127077.18



Prepared for:

Volkert, Inc.

Shreveport, Louisiana

Prepared by:

Terracon Consultants, Inc.

Baton Rouge, Louisiana

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

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3.1	Visual Assessment.....	2
3.2	Physical Assessment.....	2
3.3	Sample Collection.....	2
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4.0	REGULATORY OVERVIEW.....	3
5.0	FINDINGS AND RECOMMENDATIONS.....	4
6.0	GENERAL COMMENTS.....	5

LIST OF APPENDICES

- Appendix A Asbestos Survey Sample Summary
- Appendix B Confirmed Asbestos-Containing Materials
- Appendix C Asbestos Analytical Laboratory Data
- Appendix D Certifications
- Appendix E Photographs

EXECUTIVE SUMMARY – SPN: 455-09-0025, PARCEL 54-4, STRUCTURE C

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the vacant commercial structure located on Parcel 54-4, and identified as Structure C, in Shreveport, Caddo Parish, Louisiana. The property address is 1357 Martin Luther King Jr. Drive in Shreveport, Louisiana and Terracon understands the Louisiana Department of Transportation and Development (LDOTD) is the property owner. It is our understanding that LDOTD is planning to demolish the Structure as part of the I-49 construction project in Caddo Parish. The purpose of this survey was to identify and sample suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in building components.

The survey was conducted on January 10, 2012, by Mr. Zack L. Dial, a Louisiana Department of Environmental Quality (LDEQ) certified asbestos inspector, in general accordance with the sampling protocols established in Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. Fifteen (15) bulk samples were collected from seven (7) homogeneous areas of suspect ACM.

No ACM were identified in any of the samples collected.

The following material was found to contain asbestos at a concentration of less than one percent (1%) and is therefore not considered asbestos-containing per applicable EPA and State of Louisiana guidelines:

- Drywall/joint compound composite

The drywall/joint compound was found at the northeast corner of the structure in a bathroom and storage room. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities (including demolition) be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 fibers/cc air. The owners should notify the demolition contractor of the findings of this survey and the potential for asbestos fiber exposure during removal of this material during demolition activities. Demolition contractors are advised to comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition activities.

Please refer to the attached report for details.

ASBESTOS SURVEY REPORT

**I-49 Segment K – I-220 to Martin Luther King, Jr. Drive
SPN: 455-09-0025, Parcel 54-4, Structure C
Shreveport, Caddo Parish, Louisiana**

Terracon Project No. EH127077.18

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the vacant commercial structure located on Parcel 54-4, and identified as Structure C, in Shreveport, Caddo Parish, Louisiana. The survey was conducted on January 10, 2013 by Mr. Zack L. Dial; a LDEQ certified asbestos inspector, in accordance with the Contract for Asbestos Inspection, August, 2012, between Terracon and Volkert, Inc. Interior and exterior building components were surveyed and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in EPA regulation 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA). Samples were delivered to an accredited laboratory for analysis by polarized light microscopy.

1.1 Project Objective

We understand this asbestos survey was requested due to the planned demolition of the structure. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities.

2.0 BUILDING DESCRIPTION

The structure is an approximate 2,000-square foot stand-alone one-story, concrete masonry unit (CMU) vacant commercial structure on a concrete slab foundation with unknown construction date. The exterior consists of CMU with wood frame windows and doors. Interior walls consisted of painted CMU or finished drywall, the ceiling were an adhered ceiling tile, and floors were either unfinished or vinyl floor tile. No heating, ventilation, air-conditioning systems were observed.

3.0 FIELD ACTIVITIES

The survey was conducted by Mr. Zack L. Dial, a LDEQ certified asbestos inspector. A copy of Mr. Dial's asbestos inspector certificate is attached in Appendix D. The survey was conducted 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.

3.1 Visual Assessment

Our survey activities began with visual observation of the interior and exterior of the building to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture and date of application. Interior and exterior assessment was conducted throughout visually accessible areas of the building. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

Where applicable, Terracon lifted flooring in several areas in the building and did not observe additional floor coverings/layers except where noted in this report; however, as Terracon could not assess beneath all areas with flooring present, there may be isolated areas of additional suspect material present beneath carpet and floor tiles.

3.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. Sample team members 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.

Fifteen (15) bulk samples were collected from seven (7) homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix A.

3.4 Sample Analysis

Bulk samples were submitted under chain of custody to Steve Moody Micro Services, LLC (SMMS) in Farmers Branch, Texas for analysis by polarized light microscopy with dispersion staining techniques per EPA methodology (40 CFR 763, Subpart E). The percentage of asbestos, where applicable, was determined by microscopical visual estimation. SMMS is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 102056) and Louisiana Environmental Laboratory Accreditation Program (LELAP Accreditation No.04089).

4.0 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 building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified 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.

The State of Louisiana has established the Louisiana Department of Environmental Quality Asbestos Handbook, which requires any asbestos-related activity in a state building or school to be performed by an individual or company accredited or licensed by the State of Louisiana, through the LDEQ. An asbestos-related activity consists of the disturbance (whether intentional or unintentional) or abatement of ACM, the performance of asbestos surveys, the development of management plans and response actions, asbestos project design, the collection or analysis of asbestos samples, monitoring for airborne asbestos or any other activity required to be accredited or licensed under Louisiana Department of Environmental Quality Asbestos Handbook.

In non-state, non-school buildings, the following activities must be performed by accredited individuals or licensed companies: asbestos surveys, asbestos abatement, and monitoring for airborne asbestos. However, the EPA Model Accreditation Program (MAP) requires that a project

design for the abatement of friable ACM (greater than a small-scale, short duration activity) be written by an EPA-accredited project designer.

RACM must be removed prior to renovation or demolition activities that will disturb the materials. The owner or operator must provide the LDEQ with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of RACM must be conducted by a State of Louisiana licensed asbestos abatement contractor. In addition, third party air monitoring must be performed prior to, during, and following the abatement.

The OSHA Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. 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.

5.0 FINDINGS AND RECOMMENDATIONS

No ACM were identified in any of the materials sampled.

The following material was found to contain asbestos at a concentration of less than one percent (1%) and is therefore not considered asbestos-containing per applicable EPA and State of Louisiana guidelines:

- Drywall/joint compound composite

The drywall/joint compound was found at the northeast corner of the structure in a bathroom and storage room. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities (including demolition) be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 fibers/cc air. The owners should notify the demolition contractor of the findings of this survey and the potential for asbestos fiber exposure during removal of this material during demolition activities. Demolition contractors are advised to comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition activities.

It should be noted that suspect materials, other than those identified during this survey may exist within the building. Should suspect materials other than those which were identified during this survey be uncovered during the demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

A summary of the classification, condition and approximate quantity of identified ACM are presented in Appendix B. Laboratory analytical reports are included in Appendix C.

6.0 GENERAL COMMENTS

This asbestos survey was 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 survey of the building. The information contained in this report is relevant to the date on which this survey 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 Louisiana Department of Transportation and Development 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, expressed or implied is made.

APPENDIX A
ASBESTOS SURVEY SAMPLE SUMMARY
I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4, Structure C
Shreveport, Caddo Parish, Louisiana
Terracon Project No. EH127077.18

HA	Sample No.	Description	Sample Location
1	54-4C-01	12"x12" Floor tile	Storage room
1	54-4C-02	12"x12" Floor tile	Storage room
2	54-4C-03	12"x12" Ceiling tile	Original throughout
2	54-4C-04	12"x12" Ceiling tile	Original throughout
3	54-4C-05	2'x4' Ceiling tile	Below original tile
3	54-4C-06	2'x4' Ceiling tile	Below original tile
4	54-4C-07	Drywall and joint compound	Throughout
4	54-4C-08	Drywall and joint compound	Throughout
4	54-4C-09	Drywall and joint compound	Throughout
5	54-4C-10	Window Caulk	Exterior windows
5	54-4C-11	Window Caulk	Exterior windows
6	54-4C-12	2'x4' Ceiling tile	Near storefront
6	54-4C-13	2'x4' Ceiling tile	Near storefront
7	54-4C-14	Roofing shingle and tar paper	Roof
7	54-4C-15	Roofing shingle and tar paper	Roof

APPENDIX B

**CONFIRMED ASBESTOS CONTAINING MATERIAL
I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4, Structure C
Shreveport, Caddo Parish, Louisiana
Terracon Project No. EH127077.18**

HA No.	Description	Material Location	Percent/Type Asbestos	NESHAP Classification	Condition	Estimated Quantity*
4	Drywall and joint compound	Northeast corner in bathroom and storage room	<1%C	Non-ACM per NESHAP	Good	1,000 ft ²

* Quantities are estimates only.

lf = linear feet

ft² = square feet

C = Chrysotile asbestos

APPENDIX C

ASBESTOS LABORATORY ANALYTICAL REPORTS

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA	Lab Job No. : 13B-00287	002
Project : 1-49 Asbestos, Parcel 54-4C	Report Date : 01/17/2013	
Project # : EH127077	Sample Date : Not Provided	
Identification : Asbestos, Bulk Sample Analysis		
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

Page 1 of 2

On 1/10/2013, fifteen (15) bulk material samples were submitted by Zack Dial of Terracon - Baton Rouge, LA for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
54-4C-01	12" x 12" Floor Tile	None Detected - Floor Tile None Detected - Clear Mastic
54-4C-02	12" x 12" Floor Tile	None Detected - Floor Tile None Detected - Clear Mastic
54-4C-03	12" x 12" Ceiling Tile	None Detected - Acoustic Tile
54-4C-04	12" x 12" Ceiling Tile	None Detected - Acoustic Tile
54-4C-05	2' x 4' Ceiling Tile (Pinholes)	None Detected - Acoustic Tile
54-4C-06	2' x 4' Ceiling Tile (Pinholes)	None Detected - Acoustic Tile
54-4C-07	Drywall and Joint Compound	None Detected - Drywall Material 3% Chrysotile - Joint Compound <1% Chrysotile - Sample Composite
54-4C-08	Drywall and Joint Compound	None Detected - Drywall Material 3% Chrysotile - Joint Compound <1% Chrysotile - Sample Composite
54-4C-09	Drywall and Joint Compound	None Detected - Drywall Material 3% Chrysotile - Joint Compound <1% Chrysotile - Sample Composite
54-4C-10	Window Caulk	None Detected - Caulking
54-4C-11	Window Caulk	None Detected - Caulking
54-4C-12	2' x 4' Ceiling Tile (Fissures)	None Detected - Acoustic Tile
54-4C-13	2' x 4' Ceiling Tile (Fissures)	None Detected - Acoustic Tile
54-4C-14	Roof Shingle and Tar Paper	None Detected - Top Roofing Shingle None Detected - Bottom Roofing Shingle None Detected - Roofing Felt

PLM Summary Report

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA	Lab Job No. : 13B-00287	002
Project : 1-49 Asbestos, Parcel 54-4C	Report Date : 01/17/2013	
Project # : EH127077	Sample Date : Not Provided	
Identification : Asbestos, Bulk Sample Analysis		
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

On 1/10/2013, fifteen (15) bulk material samples were submitted by Zack Dial of Terracon - Baton Rouge, LA for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
54-4C-15	Roof Shingle and Tar Paper	None Detected - Top Roofing Shingle None Detected - Bottom Roofing Shingle None Detected - Roofing Felt

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. The test report shall not be reproduced, except in full, without written approval of the laboratory. The results relate only to the items tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056-0.



Analyst(s): Jody Thompson
 Lab Manager : Bruce Crabb
 Lab Director : Steve Moody

Approved Signatory :
 Approved Signatory :

Thank you for choosing Steve Moody Micro Services

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : 1-49 Asbestos, Parcel 54-4C
 Project # : EH127077

Lab Job No. : 13B-00287
 Report Date : 01/17/2013

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-4C-01	Floor Tile (Off-White)	98%	Calcite / Vinyl Binders	100%	01/10	JT
	Clear Mastic (Clear)	2%	Glue Binders	100%		
54-4C-02	Floor Tile (Off-White)	98%	Calcite / Vinyl Binders	100%	01/10	JT
	Clear Mastic (Clear)	2%	Glue Binders	100%		
54-4C-03	Acoustic Tile (Tan)	100%	Wood Fibers	100%	01/10	JT
54-4C-04	Acoustic Tile (Tan)	100%	Wood Fibers	100%	01/10	JT
54-4C-05	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	01/10	JT
			Mineral Wool Fibers	30%		
			Perlite	20%		
54-4C-06	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	01/10	JT
			Mineral Wool Fibers	30%		
			Perlite	20%		
54-4C-07	Drywall Material (Off-White)	85%	Cellulose Fibers	2%	01/10	JT
			Gypsum / Binders	98%		
	DW Paper (Tan)	10%	Cellulose Fibers	100%	01/17	JT
	Joint Compound (Off-White)	5%	Chrysotile	3%		
	Sample Composite (White)		Calcite / Talc / Binders	97%		
			Chrysotile	<1%		
			Cellulose Fibers	2%		
			Calcite / Gypsum Binders	98%		
54-4C-08	Drywall Material (Off-White)	85%	Cellulose Fibers	2%	01/10	JT
			Gypsum / Binders	98%		
	DW Paper (Tan)	10%	Cellulose Fibers	100%	01/17	JT
	Joint Compound (Off-White)	5%	Chrysotile	3%		
	Sample Composite (White)		Calcite / Talc / Binders	97%		
			Chrysotile	<1%		
			Cellulose Fibers	2%		
			Calcite / Gypsum Binders	98%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : 1-49 Asbestos, Parcel 54-4C
 Project # : EH127077

Lab Job No. : 13B-00287
 Report Date : 01/17/2013

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-4C-09	Drywall Material (Off-White)	85%	Cellulose Fibers	2%	01/10	JT
			Gypsum / Binders	98%		
	DW Paper (Tan)	10%	Cellulose Fibers	100%		
	Joint Compound (Off-White)	5%	Chrysotile	3%		
Sample Composite (White)			Calcite / Talc / Binders	97%	01/17	JT
			Chrysotile	<1%		
			Cellulose Fibers	2%		
			Calcite / Gypsum Binders	98%		
54-4C-10	Caulking (Grey)	100%	Binders / Fillers	100%	01/10	JT
54-4C-11	Caulking (Opaque)	100%	Silicone Binders	100%	01/10	JT
54-4C-12	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	01/10	JT
			Mineral Wool Fibers	30%		
			Perlite	20%		
54-4C-13	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	01/10	JT
			Mineral Wool Fibers	30%		
			Perlite	20%		
54-4C-14	Sand Layer (Grey)	20%	Aggregate	100%	01/10	JT
	Top Roofing Shingle (Black)	50%	Glass Wool Fibers	20%		
			Calcite	35%		
			Tar Binders	45%		
	Bottom Roofing Shingle (Black)	20%	Glass Wool Fibers	25%		
			Calcite / Tar Binders	75%		
Roofing Felt (Black)	10%	Cellulose Fibers	85%			
			Tar Binders	15%		

Steve Moody Micro Services, LLC
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - Baton Rouge, LA
 Project : 1-49 Asbestos, Parcel 54-4C
 Project # : EH127077

Lab Job No. : 13B-00287
 Report Date : 01/17/2013

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-4C-15	Sand Layer (Grey)	20%	Aggregate	100%	01/10	JT
	Top Roofing Shingle (Black)	50%	Glass Wool Fibers	20%		
			Calcite	35%		
			Tar Binders	45%		
	Bottom Roofing Shingle (Black)	20%	Glass Wool Fibers	25%		
			Calcite / Tar Binders	75%		
	Roofing Felt (Black)	10%	Cellulose Fibers	85%		
			Tar Binders	15%		

Chain of Custody

Page _____ of _____



Lab Job # 13B-00287 PLM 15
 Lab Job # _____
 Lab Job # _____

****Please call in advance for immediate, after-hour, & weekend pricing & availability.****

Turnaround of Culture Samples subject to Culture Growth

ASBESTOS PLM

Bulk 1 day 2 day 3 day 5 day Immediate
 Analyze All Positive Stop

LEAD Paint / Soil / Wipe 1 day 2 day 3 day 5 day Immediate

PCM Air (7400) 1 day 2 day 3 day 5 day Immediate

TOTAL DUST (0500/0600) 1 day 2 day

MOLD

Non-culture (Tape / Bulk / Air) 1 day 2 day Immediate

Air Standard Profile Air Expanded Profile

Analyze Blanks Yes No

Culture (Swab / Bulk / Plate) 7-14 day

ASBESTOS TEM

Air AHERA Method 6 hr 12hr 24 hr

Air 7402 (Modified) 1 day 2 day 3 day

Bulk/Wipe/Micro Vac 1 day 2 day 3 day

Water 1 day 2 day 3 day

Analyze Blanks Yes No

BACTERIA

Heterotrophic Plate Count (HPC) 3 day

HPC + Gram Stain 3 day 5 day

HPC + 3 Gram Neg ID 6-8 day

HPC + 5 Gram Neg ID 6-8 day

Fecal Coliform (MPN) 3 day

Total Coliform & E Coli (P/A) 2-3 day

Billing Company / City: TERRACON BATON ROUGE

of Samples: 15

Submitter / Company: ZACK DIAL

Sample Date: _____

Project: 1-49 ASBESTOS - Parcel 54-4C

Project #: EH127077

Contact Information: Name: ZACK DIAL

Phone #: 225-810-2069

E-mail Results to: ZLDIAL@terracoon.com

Mobile #: _____

Invoice Address: 2822-B O'neal Lane, Baton Rouge, LA 70816

P.O. #: EH127077

--- Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged samples or excessive administrative requests may incur additional fees---

Notes: _____

Sample #	Sample Description	Vol. / Area if applicable	Location / Notes
54-4C-01	12"x12" Floor tile	~150 sq	
54-4C-02	12"x12" Ceiling tile	~600 sq	
54-4C-03	2'x4' Ceiling tile (pinholes)	~400 sq	
54-4C-04	Drywall & joint compound	~600 sq	
54-4C-05	Window Caulk	~36 LF	
54-4C-06	2'x4' Ceiling tile (fissures)	~400 sq	
54-4C-07	Roof shingle & tar paper	~1,200 sq	

Released By: <u>Zack L Dial</u>	Date / Time: <u>1/7/13</u>	Received By: <u>Good</u>	Date / Time: <u>1/10/13 9:10</u>
Released By: _____	Date / Time: _____	Received By: _____	Date / Time: _____

APPENDIX D
CERTIFICATIONS

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Zack Lem Dial III

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

ASBESTOS INSPECTOR

Accreditation No. 31136444

AI No. 136444

Date of Issuance 5/15/2012

Expiration 4/27/2013

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.

Christopher Mangum
Permit Support Services Division
Office of Environmental Services

APPENDIX E
PHOTOGRAPHS



Photo 1 View of front of building.



Photo 2 View of non-ACM window caulk and exterior finishes.

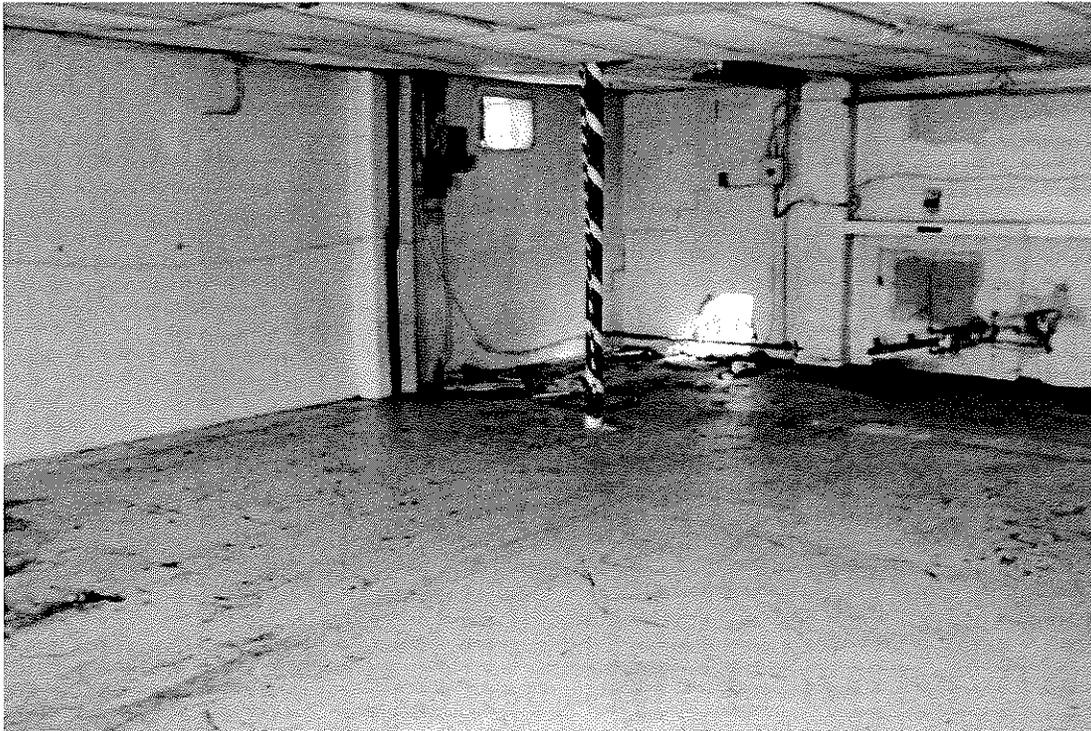


Photo 3 View of interior building finishes.



Photo 4 View of non-ACM floor tile in bathroom.

Asbestos Survey Report

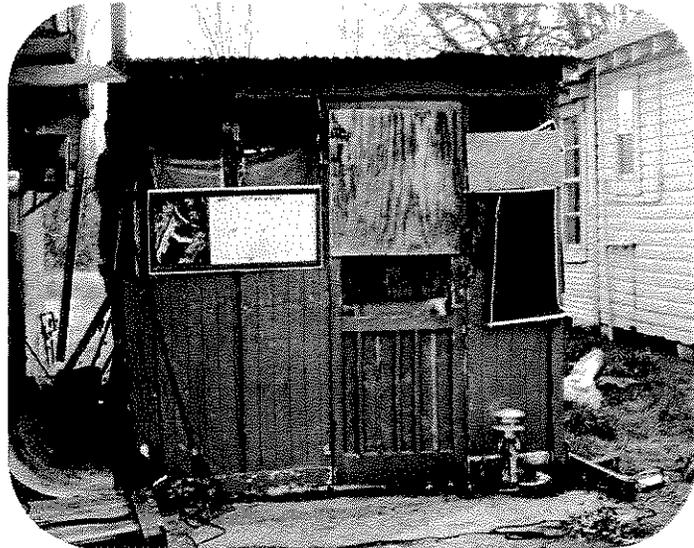
I-49 Segment K – I-220 to Martin Luther King Jr. Drive

SPN: 455-09-0025, Parcel 54-4, Structure *C/D*

Louisiana Department of Transportation and Development
Shreveport, Caddo Parish, Louisiana

January 22, 2013

Terracon Project No. EH127077.18



Prepared for:

Volkert, Inc.

Shreveport, Louisiana

Prepared by:

Terracon Consultants, Inc.

Baton Rouge, Louisiana

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities



January 22, 2013

Volkert, Inc.
1500 North Market Street, Suite B-100
Shreveport, Louisiana 71107

Attn: Ms. Kimberly Nelson

Re: SPN: 455-09-0025
Asbestos Survey
Parcel 54-4, Structure D
Shreveport, Caddo Parish, Louisiana
I-49 Segment K – I-220 to Martin Luther King Jr. Drive
Terracon Project No. EH127077.18

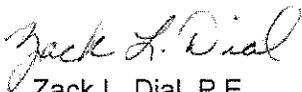
Dear Ms. Nelson:

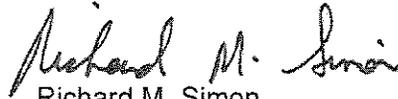
The purpose of this report is to present the results of an asbestos survey performed on January 10, 2013, at the above referenced structure in Shreveport, Caddo Parish, Louisiana. This survey was conducted in accordance with the Contract for Asbestos Inspection, dated August 2012, between Terracon Consultants, Inc. (Terracon) and Volkert, Inc. We understand this survey was requested due to the planned demolition of the Structure Cs part of the I-49 construction project in Caddo Parish.

No suspect asbestos-containing materials (ACM) were identified; therefore no samples were collected and analyzed. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service to the Volkert, Inc. If you have any questions regarding this report, please contact the undersigned at 225-344-6052.

Sincerely,
Terracon


Zack L. Dial, P.E.
Project Engineer


Richard M. Simon
Senior Principal/Regional Manager

Terracon Consultants, Inc. 2822-B O'Neal Lane, Baton Rouge, LA
P [225]344-6052 F [225] 344-6346 terracon.com

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

TABLE OF CONTENTS

EXECUTIVE SUMMARY – SPN: 455-09-0021, Parcel 54-4, Structure D

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3.0	FIELD ACTIVITIES	1
	3.1 Visual Assessment.....	2
	3.2 Physical Assessment.....	2
	3.3 Sample Collection.....	2
	3.4 Sample Analysis.....	2
4.0	REGULATORY OVERVIEW.....	2
5.0	FINDINGS AND RECOMMENDATIONS.....	4
6.0	GENERAL COMMENTS.....	4

LIST OF APPENDICES

- Appendix A Asbestos Survey Sample Summary
- Appendix B Certifications
- Appendix C Photographs

EXECUTIVE SUMMARY – SPN: 455-09-0021, Parcel 22-7 Structure D

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of a wood-framed shed located on Parcel 54-4, identified as Structure D in Shreveport, Caddo Parish, Louisiana. The structure is associated with the commercial structure addressed as 1357 Martin Luther King Jr. Boulevard and Terracon understands the Louisiana Department of Transportation and Development (LDOTD) is the property owner. It is our understanding that LDOTD is planning to demolish the structure as part of the I-49 construction project in Caddo Parish. The purpose of this survey was to identify and sample suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in building components.

The survey was conducted on January 10, 2013, by Mr. Zack L. Dial, a Louisiana Department of Environmental Quality (LDEQ) certified asbestos inspector, in general accordance with the sampling protocols established in Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. No suspect ACM was identified.

Please refer to the attached report for details.

ASBESTOS SURVEY REPORT

**I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4, Structure C
Shreveport, Caddo Parish, Louisiana**

Terracon Project No. EH127077.18

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of a wood-framed shed located on Parcel 54-4, identified as Structure D in Shreveport, Caddo Parish, Louisiana. The structure is associated with the residence addressed as 1357 Martin Luther King Jr. Drive. The survey was conducted on January 10, 2013 by Mr. Zack L. Dial; an LDEQ certified asbestos inspector, in accordance with the Contract for Asbestos Inspection, August 2012, between Terracon and Volkert, Inc. Interior and exterior building components were surveyed and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in EPA regulation 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA). Samples were delivered to an accredited laboratory for analysis by polarized light microscopy.

1.1 Project Objective

We understand this asbestos survey was requested due to the planned demolition of the structure. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities.

2.0 BUILDING DESCRIPTION

The 80-square foot structure is wood-framed with a corrugated metal roof, T1-11 walls, and a concrete floor. No plumbing, heating, air-conditioning or ventilation systems were observed.

3.0 FIELD ACTIVITIES

The survey was conducted by Mr. Zack L. Dial, a LDEQ certified asbestos inspector. A copy of Mr. Dial's asbestos inspector certificate is attached in Appendix B. The survey was conducted 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.

3.1 Visual Assessment

Our survey activities began with visual observation of the interior and exterior of the building to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture and date of application. Interior and exterior assessment was conducted throughout visually accessible areas of the building. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

Where applicable, Terracon lifted flooring in several areas in the building and did not observe additional floor coverings/layers except where noted in this report; however, as Terracon could not assess beneath all areas with flooring present, there may be isolated areas of additional suspect material present beneath carpet and floor tiles.

3.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on results of the visual observation, no suspect ACM were identified during the asbestos survey. As a result no bulk samples of suspect ACM were collected.

3.4 Sample Analysis

No bulk samples were collected as part of this asbestos survey.

4.0 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 building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified 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.

The State of Louisiana has established the Louisiana Department of Environmental Quality Asbestos Handbook, which requires any asbestos-related activity in a state building or school to be performed by an individual or company accredited or licensed by the State of Louisiana, through the LDEQ. An asbestos-related activity consists of the disturbance (whether intentional or unintentional) or abatement of ACM, the performance of asbestos surveys, the development of management plans and response actions, asbestos project design, the collection or analysis of asbestos samples, monitoring for airborne asbestos or any other activity required to be accredited or licensed under Louisiana Department of Environmental Quality Asbestos Handbook.

In non-state, non-school buildings, the following activities must be performed by accredited individuals or licensed companies: asbestos surveys, asbestos abatement, and monitoring for airborne asbestos. However, the EPA Model Accreditation Program (MAP) requires that a project design for the abatement of friable ACM (greater than a small-scale, short duration activity) be written by an EPA-accredited project designer.

RACM must be removed prior to renovation or demolition activities that will disturb the materials. The owner or operator must provide the LDEQ with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of RACM must be conducted by a State of Louisiana licensed asbestos abatement contractor. In addition, third party air monitoring must be performed prior to, during, and following the abatement.

The OSHA Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. 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.

5.0 FINDINGS AND RECOMMENDATIONS

No suspect ACM was identified during the course of this asbestos survey. As a result, no samples were collected.

It should be noted that suspect materials, other than those identified during this survey may exist within the building. Should suspect materials other than those which were identified during this survey be uncovered during the demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

6.0 GENERAL COMMENTS

This asbestos survey was 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 survey of the building. The information contained in this report is relevant to the date on which this survey 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 Louisiana Department of Transportation and Development 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, expressed or implied is made.

APPENDIX A

ASBESTOS SURVEY SAMPLE SUMMARY
I-49 Segment K – I-220 to Martin Luther King Jr. Drive
SPN: 455-09-0025, Parcel 54-4, Structure D
Shreveport, Caddo Parish, Louisiana
Terracon Project No. EH127077.18

HA	Sample No.	Description	Sample Location
No Suspect ACM Identified			

APPENDIX B
CERTIFICATIONS

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Zack Lem Dial III

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

ASBESTOS INSPECTOR

Accreditation No. 31136444

AI No. 136444

Date of Issuance 5/15/2012

Expiration 4/27/2013

Failure to comply with all applicable provisions of La. R.S. 2025:E. (1)(a) and La. R.S. 2025:F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.

Christopher Mangum

Permit Support Services Division

Office of Environmental Services

APPENDIX C
PHOTOGRAPHS



Photo 1 View of front of shed.



Photo 2 View of interior of shed.