

**ADDENDUM #2 - REQUEST FOR PROPOSAL (RFP)  
DEMOLITION AND RESTORATION SERVICES**

RFP Number:	TRA Trust 2011-03 – ADDENDUM #2
Date Available	November 4, 2011
Submittal via US Mail or Contract Carrier	Bids submitted by US Mail or contract carrier <i>must be received</i> by 5:00 p.m. CST on Thursday, November 17, 2011 at: TRA Trust, c/o Bob Jurgens, KDHE, 1000 SW Jackson, Suite 410, Topeka, KS 66612-1367
Delivery In Person	Bids will be accepted via personal delivery from 12:30 p.m. to 1:00 p.m. CST on Monday, November 21, 2011 in the Cherokee County Courthouse Break Room, Garden Level, 110 West Maple Ave., Columbus, Kansas. Mail or contract delivery is <b>not</b> available the day of the bid openings. <i>Late bids will not be accepted for consideration.</i>
Bid Opening	1:05 p.m. CST on Monday, November 21, 2011 in the Cherokee County Courthouse Break Room, Garden Level, 110 West Maple Ave., Columbus, Kansas.
Contract Award Date	TRA Trustee Meeting: Approx. 12:00 p.m. CST, November 28, 2011 in the Cherokee County Courthouse Break Room, Garden Level, 110 West Maple Ave., Columbus, Kansas.
Technical Questions:	Bob Jurgens, KDHE: 785-296-1914
Item:	Demolition and Restoration Services
Agency:	Treece Relocation Assistance Trust, Columbus, Kansas
Period of Contract:	Date of Trust award through June 30, 2013
Guarantee:	No Monetary Guarantee Required
Scope:	This Contract shall cover the procurement of demolition and restoration services for the Treece Relocation Assistance Trust during the contract period referenced above. Multiple contractors may be selected at the Trust's discretion.

Electronic Copies of RFP # TRA Trust 2011-03 and Addendums #1 and #2 are available at the Project Web Page at [www.kdheks.gov/treece](http://www.kdheks.gov/treece) or by request from the Treece Relocation Assistance Trust (Trust) by contacting Bob Jurgens, Kansas Department of Health and Environment (KDHE) via email at [bjurgens@kdheks.gov](mailto:bjurgens@kdheks.gov) or calling (785) 291-3252. KDHE is only providing technical and administrative assistance to the Trust and is not a party in the contract award associated with this RFP.

**Addendum #2 Changes**

1. **Bid Sheets:** Revision #2, dated 11/4/11
  - a. Revisions to asbestos assessment reports OR-M-26 (house), OR-M-26 (trailer), OR-W-03, OR-W-05, OR-W-07, OR-W-26, and S-10 were received by the TRA Trust. Bid sheets have been modified to reflect properties requiring asbestos abatement. Bids shall be provided for abatement in addition to the initial demolition costs.
2. **F<sub>1</sub> Treece Demo Map – City Limits:** Revised to reflect properties needing asbestos abatement prior to demolition.
3. **F<sub>2</sub> Treece Demo Map – North Rural Properties:** Revised to reflect properties needing asbestos abatement prior to demolition.
4. **Asbestos Abatement Reports:** Revised asbestos abatement reports for OR-M-26 (house), OR-M-26 (trailer), OR-W-03, OR-W-05, OR-W-07, OR-W-26, and S-10. Note that OR-W-05, OR-M-26 (house) and OR-M-26 (trailer) do not require abatement.
5. **Asbestos Abatement – KDHE Asbestos Program Recommendations:** Recommendations are provided by the Kansas Department of Health & Environment's Asbestos Program for structures with identified ACM.
6. **Fescue Seed:** Fescue seed must be a non-endophyte variety.

**Revision 2 - BID SHEETS - DEMOLITION & RESTORATION RFP****Treece Relocation Assistance Trust***11/04/11 Revision #2 incorporates revisions due to revised asbestos abatement reports.***MODULES 1 and 2****Module 1: Standard demolition of structures on residential and non-residential property, including general debris cleanup for the associated parcels of property.****Module 2: General property clean up for vacant lots or other areas without significant structures (e.g. No permanent structures with foundations or a framework permanently affixed to the land).**

Prop = Property

Mod = Module

**Lot 1 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORW25	1-2	1	Wood-frame	
ORM17L	3-4	1	Wood-frame	
Total =				

**Lot 2 - Original Plat****No Demolition Planned****Lot 3 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM08	1-3	2	General Debris	
ORM17L	4-5	2	General Debris	
Total =				

**Lot 4 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM13	1-2	2	General Debris	
V07	3-4	2	General Debris	
Total =				

**Lot 5 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
V11	1-2	2	General Debris	
V31	3	2	General Debris	
V37	4-6	2	General Debris	
ORW04	12	1	Wood-frame	
Total =				

**Lot 6 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
V09	1-2	2	General Debris	
V29	3-6	2	General Debris	
ORM20	9-10	2	General Debris	
ORM18	11-12	2	General Debris	
ORW28	13	1	Wood-frame	
V36	14-15	2	General Debris	
S13	17	1	Wood-frame	
ORW15	18	1	Wood-frame	
Total =				

**Lot 7 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORW18	1-2	2	General Debris	
S04	3	1	Wood-frame	
ORM24	4-6	2	General Debris	
V14	7-8	2	General Debris	
S06	9	1	Wood-frame	
ORW22	10-13	1	Wood-frame	
ORW022	10-13	1	Asbestos Abate	
ORM31	14-15	2	Wood-frame	
Total =				

**Lot 8 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
V32	1-2	1	Mobile Home	
ORW08	3-4	1	Wood-frame	
ORW08	3-4	1	Asbestos Abate	
ORM01	5	2	General Debris	
ORW02	6	1	Wood-frame	
ORW02	6	1	Asbestos Abate	
ORM23	7-8	2	General Debris	
V01	9-10	2	General Debris	
S02	11-12	1	Wood-frame	
Total =				

**Lot 9 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM10	1-3	2	General Debris	
ORM11	4-9	1	Wood-frame	
ORM37	10-13	2	General Debris	
ORM29	14-15	2	General Debris	
ORW07	16	1	Wood-frame	
ORW07	16	1	Asbestos Abate	
ORW24	17-18	1	Wood-frame	
Total =				

**Lot 10 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM07	1-3	2	General Debris	
V25	5	2	General Debris	
NR2	7-12	1	Concrete block	
<del>NR2</del>	<del>7-12</del>	<del>1</del>	<del>Asbestos Abate</del>	
ORM40	16-18	2	General Debris	
ORW17	19-21	2	General Debris	
Total =				

**Lot 11 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM38	4-6	2	General Debris	
ORW16	7-11	2	General Debris	
S-12	12-13	1	Concrete Block	
S-12	12-13	1	Asbestos Abate	
ORW20	14-18	1	Wood-frame	
ORM02	19-21	2	General Debris	
Total =				

**Lot 12 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM26	1-3	1	Wood-frame	
<del>ORM26</del>	<del>1-3</del>	<del>1</del>	<del>Asbestos Abate</del>	
S10	5-7	1	Wood-frame	
<del>S10</del>	<del>5-7</del>	<del>1</del>	<del>Asbestos Abate</del>	
ORW19	10-18	1	Wood-frame	
Total =				

**Lot 13 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORW05	1-6	1	Wood-frame	
<del>ORW05</del>	<del>1-6</del>	<del>1</del>	<del>Asbestos Abate</del>	
ORW26	7-8	1	Wood-frame	
ORW13	9-12	1	Wood-frame	
ORM03	13-18	2	General Debris	
Total =				

**Lot 14 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
NR-4	1-4	1	Wood-frame	
NR-4	1-4	1	Asbestos Abate	
ORW16	5-7	1	Wood-frame	
ORM39	13-14	2	General Debris	
V35	15	2	General Debris	
V17	17	2	General Debris	
V18	18-19	2	General Debris	
NR3	20-21	1	Conc. Block	
Total =				

**Lot 15 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM15	1-8	2	General Debris	
NR1	9-10	1	Concrete Bldg	
S07	11-12	1	Wood-frame	
ORM25	13-18	2	General Debris	
S08	19-20	1	Wood-frame	
ORW23	21	1	Wood-frame	
ORW23	21	1	Asbestos Abate	
Total =				

**Lot 16 - Original Plat** Time to complete: \_\_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORW01	1-3	1	Bldg remnants	
V06	4-5	2	General Debris	
V03	6	2	General Debris	
ORM22	7-9	1	Mobile Home	
ORW14	10-11	1	Wood-frame	
S05	12	1	Wood-frame	
NR5	13	2	General Debris	
ORM05	14-15	2	General Debris	
ORW12	16-17	1	Wood-frame	
ORW12	16-17	1	Asbestos Abate	
Total =				

**Lot 1-Chubbs 1st Add** Time to complete: \_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM27	1-2	2	General Debris	
Total =				

**Lot 2-Chubbs 1st Add** Time to complete: \_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM27	1-12	2	General Debris	
Total =				

**Lot 3-Chubb's 1st Add** Time to complete: \_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORM32	1	1	Wood-frame	
<del>ORM32</del>	<del>1</del>	<del>1</del>	<del>Asbestos Abate</del>	<del></del>
ORW21	2-3	1	Wood-frame	
ORW21	2-3	1	Asbestos Abate	
ORW29	4	1	Wood-frame	
ORM28	5-6	2	General Debris	
V33	9-11	2	General Debris	
S01	12	1	Wood-frame	
Total =				

**Lot 4-Chubb's 1st Add** Time to complete: \_\_\_\_ days

Prop ID#	Lots	Mod	Structure Type	Price
ORW06	1-4	1	Wood-frame	
ORW10	5-6	1	Wood-frame	
ORW10	5-6	1	Asbestos Abate	
ORW11	7-10	1	Wood-frame	
S11	11-12	2	General Debris	
ORW14	10-11	1	Wood-frame	
Total =				

**PROPERTIES OUTSIDE TREECE CITY LIMITS**

**Group 1 - Assigned with Chubbs Lot 4**

Time to complete: \_\_\_\_ days

Prop ID#	Location Info	Mod	Structure Type	Price
ORW09	438 Prospect - NW corner of Prospect & State Line (city limits map)	2	General Debris	
ORW03	11974 SW 10th - NW cor of Grove Rd and SW 10th (Treece North Map)	1	Wood-frame	
ORW03	11974 SW 10th - NW cor of Grove Rd and SW 10th (Treece North Map)	1	Asbestos Abate	
ORM35	11733 SW 10th - 350' So. of Groundhog and SW 10th (Treece North Map)	1	Wood-frame	
ORM30	11583 SW 10th - 500' No. of Groundhog and SW 10th (Treece North Map)	1	Wood-frame	
ORM-19	11567 SW 10th - 650' No. of Groundhog and SW 10th (Treece North Map)	1	Wood-frame	
<del>ORM-19</del>	<del>11567 SW 10th - 650' No. of Groundhog and SW 10th (Treece North Map)</del>	<del>1</del>	<del>Asbestos Abate</del>	<del></del>
S03	11507 SW 10th - 870' No. of Groundhog and SW 10th (Treece North Map)	2	General Debris	
Total =				

**Group 2**

Time to complete: \_\_\_\_ days

Prop ID#	Location Info	Mod	Structure Type	Price
ORM12	11238 SW 10th Rd - 1/4 mile So. of Star Rd & SW 10th (Treece North Map)	2	General Debris	
ORM21	11082 SW 10th - 450' So. of Starr Rd & SW 10th (Treece North Map)	2	General Debris	
ORM33	1024 SW Starr Rd - SW corner of Starr Rd and SW 10th (Treece North Map)	1	Wood-frame	
ORM27	1098 SW Starr Rd. - 550' West of Starr Rd and SW 10th (Treece North Map)	2	General Debris	
Total =				

Total all Module 1 and 2 Parcels = \$ \_\_\_\_\_

## MODULE 3

**MODULE 3:** Removal of pavement, such as concrete or asphalt and typically is related to streets, driveways and parking pads. All unit rates should include equipment and labor.

**Concrete Removal:** Parcel-specific awards will be dependent on the funding availability and the unit rate for removal and disposal.

**Streets Option 1:** Includes breaking up and removing all asphalt streets. For estimating purposes bidders may assume a total of approximately 21,300 sq. yd. of asphalt streets. Street thickness is anticipated to be approximately 3 inches or less. Bidder is responsible for all hauling costs associated with Streets Option 1.

**Streets Option 2:** Substitutes milling of the entire depth of asphalt streets for a beneficial use by the Cherokee County Highway Department. For estimating purposes bidders may assume a total of approximately 21,300 sq. yd. of asphalt streets. Street thickness is anticipated to be approximately 3 inches or less. Cherokee County will be responsible for hauling the milled material out of Treece and will provide 12 trucks with drivers for hauling. Milling can only be completed between the hours of 8:30 a.m. - 3:30 p.m. on M-F (excluding holidays), unless Cherokee County drivers are

<b>Concrete Removal Tasks</b>	<b>Unit</b>	<b>\$/Unit</b>
Removal Equipment - Mobilization	Lump	
Removal (Concrete Only)	Sq. Yd.	
Transport - Landfill	Sq. Yd.	
Disposal Fees - Landfill	Sq. Yd.	
Concrete Transport Alternative - Private repository approximately 1,000 feet northeast of the city wastewater lagoons on northeast corner of town	Sq. Yd.	

<b>Streets Option 1 - Removal and Landfill Disposal</b>	<b>Unit</b>	<b>\$/Unit</b>
Removal (Asphalt Only)	Lump	
Transport - Landfill	Sq. Yd.	
Disposal Fees - Landfill	Sq. Yd.	
Asphalt Transport Alternative - Private repository approximately 1,000 feet northeast of the city wastewater lagoons on northeast corner of town.	Sq. Yd.	

<b>Streets Option 2 - Asphalt Milling Tasks</b>	<b>Unit</b>	<b>\$/Unit</b>
Asphalt Milling - Mobilization	Lump	
Asphalt Milling (Assumes 12 standard dump trucks with drivers provided at no cost to bidder by the Cherokee County Roads Department and delivery of milled asphalt to a location within 15 miles of Treece.)	Sq. Yd.	

*Contractor shall verify street thicknesses prior to bid submittal*

### MODULE 4

**MODULE 4:** Sewer system abandonment, culvert removal, final grading of the demo areas, seeding, and fertilization. Priced on a per unit basis.

**Excavation and earthwork:** Anticipates including abandoning the city sewer system manholes and lift station, filling low areas created by foundation and pavement removals and final grading to promote positive surface water runoff. Trust and Contractor will mutually agree upon the scope of work and costs determined by unit rates prior to implementation.

Task	Unit	\$/Unit
<b>Seeding and Erosion Control</b>		
Seeding - Fescue non-endophyte	Acre	
Temporary Seeding - Ryegrass	Acre	
Fertilization	Acre	
Seedbed Preparation - Tractor and disk	Acre	
Seedbed protective mulch - Straw or native grass w/crimpin	Acre	
Seedbed Preparation - Tractor and disk	Acre	
Erosion control Silt Fence - Installed	Ln. Ft.	
<b>Labor</b>		
General Laborer	Hour	
Operator - Light equipment and trucks	Hour	
Operator - Heavy equipment	Hour	
<b>Heavy Equipment</b>		
Road Grader	Hour	
Dozer	Hour	
Front end loader	Hour	
Backhoe	Hour	
Dump truck	Hour	
<b>Light Equipment</b>		
Skid steer loader	Hour	
3/4 - 1 ton pickup	Hour	
Water Truck	Hour	
Tractor and disk	Hour	

## MODULE 5

### Module 5: Other Services as requested on a unit rate basis.

Unit rates for additional property not specified in the RFP.

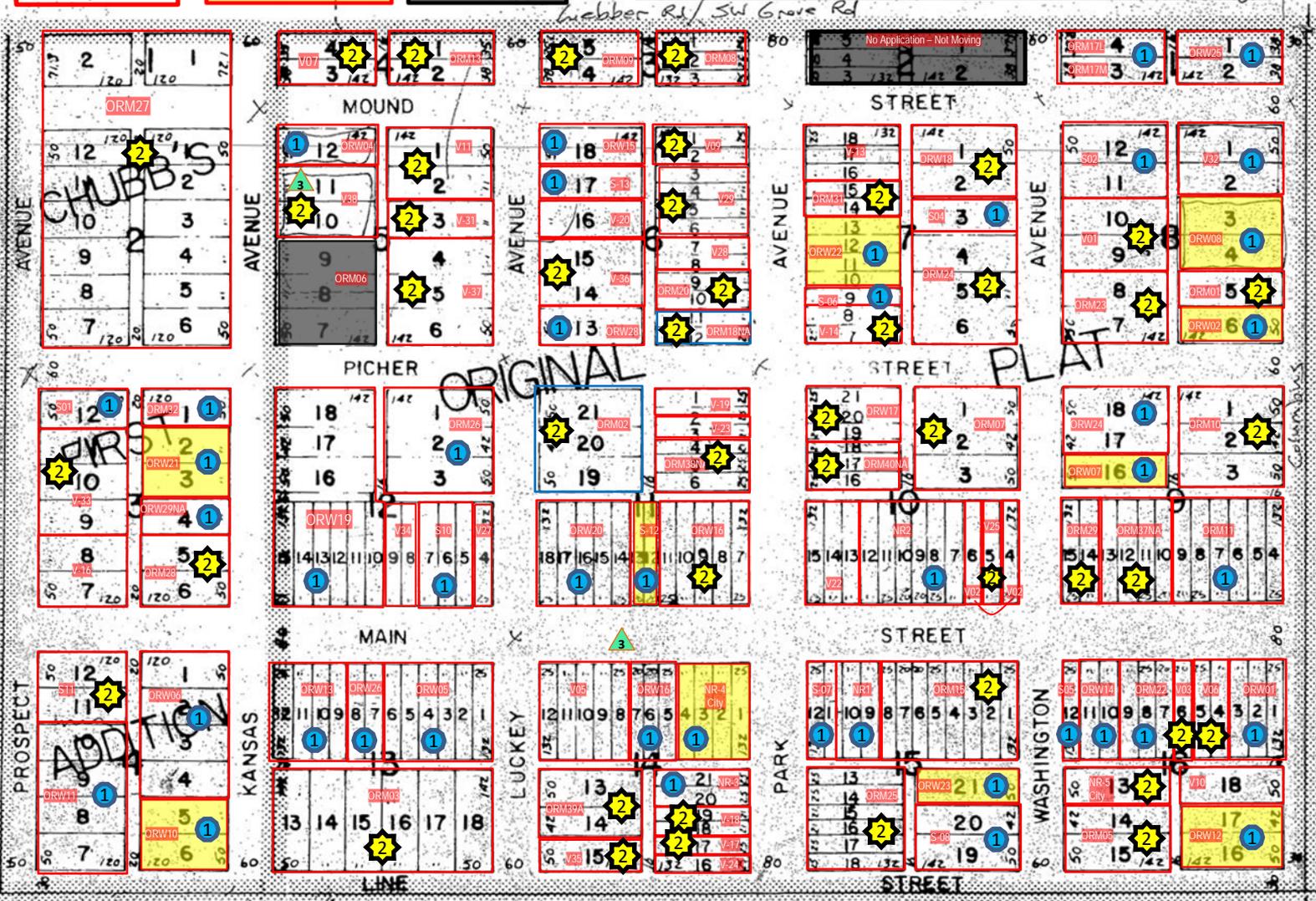
Task	Unit	\$/Unit
Demolition - Buildings (Wood frame const. incl floors)	Sq. ft.	
Demolition - Buildings (Metal frame const. incl floors)	Sq. ft.	
Demolition - Buildings (Concrete wall const. incl floors)	Sq. ft.	
Lots - General Debris Trash Cleanup	Sq. yd.	
2-man crew for light demolition - hand equipment included	Hour	

Approved for Demo

Approved for Demo w/asbestos abatement

No Demo Planned

### F1 - Treece Demo Map - City Limits Rev 2 - 11/04/2011



① = Module 1 (Structures)

★ = Module 2 (General Debris)

▲ = Module 3 (Pavement)



## **ADDENDUM #2 - REQUEST FOR PROPOSAL (RFP) #TRA TRUST 2011-03**

### **DEMOLITION AND RESTORATION SERVICES**

#### **TREECE RELOCATION ASSISTANCE PROJECT, TREECE, KANSAS**

The Asbestos program for the State of Kansas is located in the Bureau of Air and Radiation, Radiation and Asbestos Control Section. The Kansas Asbestos Control statutes and regulations establish training requirements as well as work practices and engineering controls to protect workers, the public and the environment from exposure to asbestos fibers during abatement. Companies completing asbestos abatement are required to be licensed and workers certified. Abatement notifications are required to be submitted at least 10 working days before abatement begins.

The following recommendations were provided based on a review of asbestos assessment reports provided for properties in Treece, Kansas. Bidders are responsible for their own interpretation of the assessment report results and submittal of all notification per applicable statutes and regulations. Abatement notifications must be provided to KDHE's Radiation and Asbestos Control Section prior to abatement. In addition, demolition notification for structures without ACM needs to be submitted to the same Program 10 working days prior to the start of demolition and after the abatement, if applicable.

KDHE Asbestos Program: web page: <http://www.kdheks.gov/radiation/indexasb.html>

Contact Information: Scott Bangert Phone: 785-296-1689 or e-mail: [sbangert@kdheks.gov](mailto:sbangert@kdheks.gov)

#### **Treece, KS Parcels**

- NR-2** Floor tile & mastic can be left in place under normal demolition provided the surface it is on is going to the landfill (not recycled).
- NR- 4** Siding needs to be removed by hand without making friable prior to demolition.  
Floor tile & mastic can be left in place under normal demolition provided the surface it is on is going to the landfill (not recycled).
- OR-M-32** Floor tile & mastic can be left in place under normal demolition provided the surface it is on is going to the landfill (not recycled).
- OR-W-02** Siding needs to be removed by hand without making friable prior to demolition.
- OR-W-03** Ceiling texture and duct tape needs to be removed by hand without making friable prior to demolition.  
Nonfriable exterior stucco siding composite sample is <1% and not considered to be asbestos containing under EPA 40 CFR Part 61.145.
- OR-W-7** Vinyl floor covering must be abated by a licensed abatement contractor and KDHE notification sent in prior to abatement.  
Joint Compound Composite sample <1% is not considered to be asbestos containing under EPA 40 CFR Part 61.145.
- OR-W-08** Vinyl floor covering must be abated by a licensed abatement contractor and KDHE notification sent in prior to abatement.  
Joint Compound Composite sample <1% is not considered to be asbestos containing under EPA 40 CFR Part 61.145.
- OR-W-10** Vinyl floor covering must be abated by a licensed abatement contractor and KDHE notification sent in prior to abatement.

Joint Compound Composite sample <1% is not considered to be asbestos containing under EPA 40 CFR Part 61.145.

**OR-W-12** Three areas with vinyl floor covering must be abated by a licensed abatement contractor and KDHE notification sent in prior to abatement.

Joint Compound Composite sample <1% is not considered to be asbestos containing under EPA 40 CFR Part 61.145.

**OR-W-21** Sheetrock backing must be abated by a licensed abatement contractor and KDHE notification sent in prior to abatement.

**OR-W-22** Siding needs to be removed by hand without making friable prior to demolition.

**OR-W-23** Vinyl floor covering must be abated by a licensed abatement contractor and KDHE notification sent in prior to abatement.

**OR-W-26** Sheetrock backing must be abated by a licensed abatement contractor and KDHE notification sent in prior to abatement.

**S-10 (V-12)** Roof coating can be left in place under normal demolition provided the rock material it is on is going to the landfill.

**S-12 (V-30)** Ceiling texture must be abated by a licensed abatement contractor and KDHE notification sent in prior to abatement.

#### **Clarification for structures with only joint compound as a positive ACM result**

When joint compound composite samples tested positive, but the sheetrock tested negative the resulting combination of the two materials result in a composite compound analysis indicating the combined material has only “trace” of asbestos (<1%) and therefore is not considered to be asbestos containing under EPA 40 CFR Part 61.145.

Structures with documented joint compound only ACM: OR-M-17L, OR-M-26 (house), OR-W-01, OR-W-04 and S-08.

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building NR-2

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Nonfriable **12"x12" Brown Floor Tile** (mastic tested negative) located in the back room and hallway – Approximate Quantity: 500 SF

*\*Please note, that nonfriable, ACM, such as the floor tile only needs to be abated prior to demolition activities that may disturb and render it friable by means such as sanding, grinding, cutting or abrading.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 12, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – NR2

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53537

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** NR2

**Date sample collected:** 10/10/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/11/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/12/2011

Sample No.: 1

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	20	Bulk/Binder 80

Sample No.: 2

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	20	Bulk/Binder 80

Sample No.: 3

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	20	Bulk/Binder 80

Sample No.: 4

Material: Floor tile

Layer No.: 1

Analyst Description of Material: Tan flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSOTILE</b>	<b>5</b>			Bulk/Binder 95

Sample No.: 4

Material: Adhesive

Layer No.: 2

Analyst Description of Material: Yellow brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53537

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR2

**Date sample collected:** 10/10/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/11/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/12/2011

Sample No.: 5

Material: Floor tile

Layer No.: 1

Analyst Description of Material: Tan flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>5</b>			Bulk/Binder 95

Sample No.: 5

Material: Adhesive

Layer No.: 2

Analyst Description of Material: Yellow brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 6

Material: Floor tile

Layer No.: 1

Analyst Description of Material: Tan flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>5</b>			Bulk/Binder 95

Sample No.: 6

Material: Adhesive

Layer No.: 2

Analyst Description of Material: Yellow brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 7

Material: Sheet vinyl flooring

Layer No.: 1

Analyst Description of Material: Gray thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53537

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR2

**Date sample collected:** 10/10/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/11/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/12/2011

Sample No.: 7

Layer No.: 2

Material: Backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	85	Bulk/Binder
		Hair	5	10

Sample No.: 8

Layer No.: 1

Material: Sheet vinyl flooring

Analyst Description of Material: Gray thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 8

Layer No.: 2

Material: Backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	85	Bulk/Binder
		Hair	5	10

Sample No.: 9

Layer No.: 1

Material: Sheet vinyl flooring

Analyst Description of Material: Gray thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 9

Layer No.: 2

Material: Backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	85	Bulk/Binder
		Hair	5	10

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53537

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR2

**Date sample collected:** 10/10/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/11/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/12/2011

Sample No.: 10

Layer No.: 1

Material: Sheet vinyl flooring

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Layer No.: 2

Material: Backing

Analyst Description of Material: Off-white compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	95	Bulk/Binder 3
		Fibrous glass	2	

Sample No.: 10

Layer No.: 3

Material: Underlayment

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 10
		Hair	10	

Sample No.: 11

Layer No.: 1

Material: Sheet vinyl flooring

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 11

Layer No.: 2

Material: Backing

Analyst Description of Material: Off-white compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	95	Bulk/Binder 3
		Fibrous glass	2	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53537

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR2

**Date sample collected:** 10/10/2011  
**Collected by:** Paul Van  
**Submitted by:** Paul Van  
**Date sample submitted:** 10/11/2011

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:** 10/12/2011

Sample No.: 11  
 Layer No.: 3

Material: Underlayment  
 Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder
		Hair	10	10

Sample No.: 12  
 Layer No.: 1

Material: Sheet vinyl flooring  
 Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 12  
 Layer No.: 2

Material: Backing  
 Analyst Description of Material: Off-white compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	95	Bulk/Binder
		Fibrous glass	2	3

Sample No.: 12  
 Layer No.: 3

Material: Underlayment  
 Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder
		Hair	10	10

Sample No.: 13  
 Layer No.: \_\_\_\_\_

Material: Roof shingle  
 Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder
				60

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53537

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** NR2

**Date sample collected:** 10/10/2011  
**Collected by:** Paul Van  
**Submitted by:** Paul Van  
**Date sample submitted:** 10/11/2011

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** 10/12/2011

Sample No.: 14  
 Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	40	Bulk/Binder 60

Sample No.: 15  
 Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	40	Bulk/Binder 60

Sample No.: \_\_\_\_\_  
 Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
 Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
 Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building NR-4

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Nonfriable **9”x9” Brown Floor Tile** (mastic tested negative) located in the back room – Approximate Quantity: 225 SF
- Nonfriable **Gold Floor Tile** (mastic tested negative) located in the doorway between the front and back rooms – Approximate Quantity: 1 SF
- Nonfriable **Cementitious Siding Panels** located on the exterior of the building – Approximate Quantity: 750 SF

*\*Please note, that nonfriable, category II ACM, such as the cementitious siding panels, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the panels. Additionally, non-friable ACM, such as*

*the floor tile only needs to be abated prior to demolition activities that may disturb and render it friable by means such as sanding, grinding, cutting or abrading.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



14953 W. 101st Terr.  
 Lenexa, KS 66215  
 913-492-1337

**ASBESTOS INSPECTION DATA TABLE**

**Client:** Burns & McDonnell Engineering Co., Inc.  
**Address:** 9400 Ward Parkway  
**City:** Kansas City, Missouri 64114

**Survey Location:** Treece, Kansas  
**Address:** NR4  
**Inspector:** Paul Van/George McDowell/Mark Hatler  
**Date:** October 10-18, 2011

Location	Material Description	Quantity	Asbestos	Friable	Sample #	General Notes
Back Room	9"x9" Brown Floor Tile/Mastic	225 SF	YES/No	No	1	Tile positive/Mastic negative
Back Room	9"x9" Brown Floor Tile/Mastic		YES/No	No	2	
Back Room	9"x9" Brown Floor Tile/Mastic		YES/No	No	3	
Back Room	12"x12" Tan Floor Tile/Mastic	NA	No/No	No	4	
Back Room	12"x12" Tan Floor Tile/Mastic	NA	No/No	No	5	
Back Room	12"x12" Tan Floor Tile/Mastic	NA	No/No	No	6	
Bathroom	Brown Sheet Vinyl Flooring	NA	No	NA	7	
Bathroom	Brown Sheet Vinyl Flooring	NA	No	NA	8	
Bathroom	Brown Sheet Vinyl Flooring	NA	No	NA	9	
Front Room	12"x12" Gray Floor Tile/Mastic	NA	No/No	NA	10	
Front Room	12"x12" Gray Floor Tile/Mastic	NA	No/No	NA	11	
Front Room	12"x12" Gray Floor Tile/Mastic	NA	No/No	NA	12	
Front Room	1'x1' Ceiling Tile/Adhesive	NA	No/No	NA	13	
Back Room	1'x1' Ceiling Tile/Adhesive	NA	No/No	NA	14	
Back Room	1'x1' Ceiling Tile/Adhesive	NA	No/No	NA	15	
Front Room	Sheetrock/Joint Compound	NA	No	NA	16	
Back Room	Sheetrock/Joint Compound	NA	No	NA	17	
Back Room	Sheetrock/Joint Compound	NA	No	NA	18	
Middle Doorway	Gold Floor Tile/Mastic	1 SF	YES/No	No	19	Tile positive/Mastic negative
North Exterior	Cementitious Siding	750 SF	YES	No	20	
East Exterior	Cementitious Siding		Not Analyzed	No	21	
South Exterior	Cementitious Siding		Not Analyzed	No	22	
Roof	Roof Shingle	NA	No	NA	23	
Roof	Roof Shingle	NA	No	NA	24	
Roof	Roof Shingle	NA	No	NA	25	

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 12, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – NR4

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53536

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR4

**Date sample collected:** 10/10/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/11/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/12/2011

Sample No.: 1

Material: Floor tile

Layer No.: 1

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>10</b>			Bulk/Binder 90

Sample No.: 1

Material: Mastic

Layer No.: 2

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 2

Material: Floor tile

Layer No.: 1

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>10</b>			Bulk/Binder 90

Sample No.: 2

Material: Mastic

Layer No.: 2

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 3

Material: Floor tile

Layer No.: 1

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>10</b>			Bulk/Binder 90

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53536

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR4

**Date sample collected:** 10/10/2011  
**Collected by:** Paul Van  
**Submitted by:** Paul Van  
**Date sample submitted:** 10/11/2011

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:** 10/12/2011

Sample No.: 3  
 Layer No.: 2

Material: Mastic

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4  
 Layer No.: 1

Material: Floor tile

Analyst Description of Material: Tan flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4  
 Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear gold sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 5  
 Layer No.: 1

Material: Floor tile

Analyst Description of Material: Tan flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 5  
 Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear gold sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53536

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR4

**Date sample collected:** 10/10/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/11/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/12/2011

Sample No.: 6

Layer No.: 1

Material: Floor tile

Analyst Description of Material: Tan flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 6

Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear gold sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 7

Layer No.: 1

Material: Sheet vinyl flooring

Analyst Description of Material: Cream/brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 7

Layer No.: 2

Material: Flooring backing

Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder 7
		Fibrous glass	3	

Sample No.: 8

Layer No.: 1

Material: Sheet vinyl flooring

Analyst Description of Material: Cream/brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53536

RUSH TAT       

**Project Name:** Treece, Kansas  
**Address:** NR4

**Date sample collected:** 10/10/2011  
**Collected by:** Paul Van  
**Submitted by:** Paul Van  
**Date sample submitted:** 10/11/2011

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:** 10/12/2011

Sample No.: 8  
 Layer No.: 2

Material: Flooring backing

Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Fibrous glass	3	7

Sample No.: 9  
 Layer No.: 1

Material: Sheet vinyl flooring

Analyst Description of Material: Cream/brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 9  
 Layer No.: 2

Material: Flooring backing

Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Fibrous glass	3	7

Sample No.: 10  
 Layer No.: 1

Material: Floor tile

Analyst Description of Material: Off-white flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 10  
 Layer No.: 2

Material: Adhesive

Analyst Description of Material: Gold brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53536

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR4

**Date sample collected:** 10/10/2011  
**Collected by:** Paul Van  
**Submitted by:** Paul Van  
**Date sample submitted:** 10/11/2011

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:** 10/12/2011

Sample No.: 11  
 Layer No.: 1

Material: Floor tile

Analyst Description of Material: Off-white flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 11  
 Layer No.: 2

Material: Adhesive

Analyst Description of Material: Gold brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 12  
 Layer No.: 1

Material: Floor tile

Analyst Description of Material: Off-white flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 12  
 Layer No.: 2

Material: Adhesive

Analyst Description of Material: Gold brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 13  
 Layer No.: 1

Material: Ceiling tile

Analyst Description of Material: Brown compact fibrous / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	97	Bulk/Binder 3

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53536

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR4

**Date sample collected:** 10/10/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/11/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/12/2011

Sample No.: 13

Layer No.: 2

Material: Glue dot

Analyst Description of Material: Dk brown brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 14

Layer No.: 1

Material: Ceiling tile

Analyst Description of Material: Brown compact fibrous / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	97	Bulk/Binder 3

Sample No.: 14

Layer No.: 2

Material: Glue dot

Analyst Description of Material: Dk brown brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 15

Layer No.: 1

Material: Ceiling tile

Analyst Description of Material: Brown compact fibrous / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	97	Bulk/Binder 3

Sample No.: 15

Layer No.: 2

Material: Glue dot

Analyst Description of Material: Dk brown brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53536

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** NR4

**Date sample collected:** 10/10/2011  
**Collected by:** Paul Van  
**Submitted by:** Paul Van  
**Date sample submitted:** 10/11/2011

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:** 10/12/2011

Sample No.: 16  
 Layer No.: \_\_\_\_\_

Material: Sheetrock / Joint compound

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	20	Bulk/Binder 80

Sample No.: 17  
 Layer No.: \_\_\_\_\_

Material: Sheetrock / Joint compound

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	20	Bulk/Binder 80

Sample No.: 18  
 Layer No.: \_\_\_\_\_

Material: Sheetrock / Joint compound

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	20	Bulk/Binder 80

Sample No.: 19  
 Layer No.: 1

Material: Floor tile

Analyst Description of Material: Gold flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	7			Bulk/Binder 93

Sample No.: 19  
 Layer No.: 2

Material: Mastic

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53536

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** NR4

**Date sample collected:** 10/10/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/11/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/12/2011

Sample No.: 20

Material: Cementitious siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray fibrous cementitious

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>15</b>			Bulk/Binder 85

Sample No.: 23

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	35	Bulk/Binder 65

Sample No.: 24

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	35	Bulk/Binder 65

Sample No.: 25

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	35	Bulk/Binder 65

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-M-32

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Nonfriable **9"x9" Brown Floor Tile and Mastic** located in the Northwest Room (bottom layer) – Approximate Quantity: 100 SF

*Non-friable ACM, such as the floor tile and mastic only needs to be abated prior to demolition activities that may disturb and render it friable by means such as sanding, grinding, cutting or abrading.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-M-32

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53544

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-M-32

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van / M. Hatler

**Submitted by:** P. Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 1

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	15	Bulk/Binder 85

Sample No.: 2

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	15	Bulk/Binder 85

Sample No.: 3

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	15	Bulk/Binder 85

Sample No.: 4

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous / white paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	98	Bulk/Binder 2

Sample No.: 5

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous / white paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	98	Bulk/Binder 2

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53544

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-M-32

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van / M. Hatler

**Submitted by:** P. Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 6

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous / white paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	98	Bulk/Binder 2

Sample No.: 7

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 7

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	70	Bulk/Binder 20
		Fibrous glass	10	

Sample No.: 8

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 8

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	70	Bulk/Binder 20
		Fibrous glass	10	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53544

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-M-32

**Date sample collected:** 10/11-18/2011  
**Collected by:** P. Van / M. Hatler  
**Submitted by:** P. Van / M. Hatler  
**Date sample submitted:** 10/12/2011

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:** 10/25/2011

Sample No.: 9  
 Layer No.: 1

Material: Linoleum

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 9  
 Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	70	Bulk/Binder 20
		Fibrous glass	10	

Sample No.: 10  
 Layer No.: 1

Material: 9x9 floor tile

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>5</b>			Bulk/Binder 95

Sample No.: 10  
 Layer No.: 2

Material: Mastic

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>5</b>			Bulk/Binder 95

Sample No.: 13  
 Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53544

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-M-32

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van / M. Hatler

**Submitted by:** P. Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 14

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 15

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 16

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar/ green rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 40

Sample No.: 17

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar/ green rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 40

Sample No.: 18

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar/ green rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 40

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-02

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Nonfriable **Cementitious Siding Panels** located on the exterior of the building – Approximate Quantity: 520 SF

*\*Please note, that nonfriable, category II ACM, such as the cementitious siding panels, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the panels.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 24, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-02

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53625

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-02

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 1

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/ brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	10	Bulk/Binder 90

Sample No.: 2

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/ brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	10	Bulk/Binder 90

Sample No.: 3

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/ brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	10	Bulk/Binder 90

Sample No.: 4

Material: Linoleum

Layer No.: 1

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Off-white fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	5	Bulk/Binder 95

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53625

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-02

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 5

Material: Linoleum

Layer No.: 1

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 5

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Off-white fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	5	Bulk/Binder 95

Sample No.: 6

Material: Linoleum

Layer No.: 1

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 6

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Off-white fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	5	Bulk/Binder 95

Sample No.: 7

Material: Transite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray fibrous cementitious

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	15			Bulk/Binder 85

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53625

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-02

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 10

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: 11

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: 12

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: 13

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	15	Bulk/Binder 85

Sample No.: 14

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	15	Bulk/Binder 85

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53625

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-02

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 15

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Fibrous glass	15	Bulk/Binder 85

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

November 3, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: "Revised 2" Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-3

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Nonfriable *Exterior Stucco Siding* (trace amount detected) located on the exterior
- Friable **Ceiling Texture** located in the Kitchen, North Middle Room & Front Room – Approximate Quantity: 806 SF
- Friable **Duct Tape** located on the HVAC ducts and walls in the basement – Approximate Quantity: See Attached Data Sheet for Location and Quantity

*\*Please note, that friable ACM, such as the ceiling texture, and duct tape, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the materials.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



14953 W. 101st Terr.  
 Lenexa, KS 66215  
 913-492-1337

**ASBESTOS INSPECTION DATA TABLE**

**Client:** Burns & McDonnell Engineering Co., Inc.  
**Address:** 9400 Ward Parkway  
**City:** Kansas City, Missouri 64114

**Survey Location:** Treece, Kansas  
**Address:** OR-W-03  
**Inspector:** Paul Van/George McDowell/Mark Hatler  
**Date:** October 10-18, 2011

Location	Material Description	Quantity	Asbestos	Friable	Sample #	General Notes
Exterior	Window Glazing	NA	No	No	1	
Exterior	Window Glazing	NA	No	No	2	
Exterior	Window Glazing	NA	No	No	3	
<i>Exterior</i>	<i>Stucco</i>	<i>NA</i>	<i>Trace</i>	<i>No</i>	4	
<i>Exterior</i>	<i>Stucco</i>	<i>NA</i>	<i>Trace</i>	<i>No</i>	5	
<i>Exterior</i>	<i>Stucco</i>	<i>NA</i>	<i>Trace</i>	<i>No</i>	6	
Garage	Vapor Barrier	NA	No	No	7	
Garage	Vapor Barrier	NA	No	No	8	
Garage	Vapor Barrier	NA	No	No	9	
Exterior	Roof Shingles	NA	No	No	10	
Exterior	Roof Shingles	NA	No	No	11	
Garage	Roof Shingles	NA	No	No	12	
Exterior	Flashing	NA	No	No	13	
Exterior	Flashing	NA	No	No	14	
Exterior	Flashing	NA	No	No	15	
<b>Kitchen</b>	<b>Ceiling Texture</b>	<b>216 SF</b>	<b>Yes</b>	<b>Yes</b>	<b>16</b>	
<b>Middle North Room</b>	<b>Ceiling Texture</b>	<b>240 SF</b>	<b>Yes</b>	<b>Yes</b>	<b>17</b>	
<b>Front Room</b>	<b>Ceiling Texture</b>	<b>350 SF</b>	<b>Yes</b>	<b>Yes</b>	<b>18</b>	
Interior	Sheetrock / Joint Compound	NA	No	No	19	
Interior	Sheetrock / Joint Compound	NA	No	No	20	
Interior	Sheetrock / Joint Compound	NA	No	No	21	
Interior	Plaster	NA	No	No	22	
Interior	Plaster	NA	No	No	23	
Interior	Plaster	NA	No	No	24	



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 13, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-03

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53551

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-03

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/13/2011

Sample No.: 1

Material: Window glazing

Layer No.: \_\_\_\_\_

Analyst Description of Material: Tan/white brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 2

Material: Window glazing

Layer No.: \_\_\_\_\_

Analyst Description of Material: Tan/white brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Synthetic	3	Bulk/Binder 100

Sample No.: 3

Material: Window glazing

Layer No.: \_\_\_\_\_

Analyst Description of Material: Tan/white brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4

Material: Exterior stucco

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown rocky cementitious // paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1			Bulk/Binder 99.9

Sample No.: 5

Material: Exterior stucco

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown rocky cementitious // paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1			Bulk/Binder 99.9

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53551  
 RUSH TAT \_\_\_\_\_  
**Project Name:** Treece, Kansas  
**Address:** OR-W-03

**Date sample collected:** 10/11-18/2011  
**Collected by:** Paul Van  
**Submitted by:** Paul Van  
**Date sample submitted:** 10/12/2011

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** 10/13/2011

Sample No.: 6  
 Layer No.: \_\_\_\_\_

Material: Exterior stucco  
 Analyst Description of Material: Brown rocky cementitious // paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>&lt;1</b>			Bulk/Binder 99.9

Sample No.: 7  
 Layer No.: \_\_\_\_\_

Material: Paper barrier  
 Analyst Description of Material: Tan compact fibrous/ black brittle tar

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	85	Bulk/Binder 15

Sample No.: 8  
 Layer No.: \_\_\_\_\_

Material: Paper barrier  
 Analyst Description of Material: Tan compact fibrous/ black brittle tar

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	85	Bulk/Binder 15

Sample No.: 9  
 Layer No.: \_\_\_\_\_

Material: Paper barrier  
 Analyst Description of Material: Tan compact fibrous/ black brittle tar

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	85	Bulk/Binder 15

Sample No.: 10  
 Layer No.: \_\_\_\_\_

Material: Roof shingle  
 Analyst Description of Material: Black fibrous tar/ rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53551

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-03

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/13/2011

Sample No.: 11

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar/ rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 12

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar/ rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 13

Material: Flashing

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	15	Bulk/Binder 85

Sample No.: 14

Material: Flashing

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	15	Bulk/Binder 85

Sample No.: 15

Material: Flashing

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	15	Bulk/Binder 85

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53551

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-03

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/13/2011

Sample No.: 16

Material: Ceiling texture

Layer No.: \_\_\_\_\_

Analyst Description of Material: Off-white lumpy chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>2</b>			Bulk/Binder 98

Sample No.: 17

Material: Ceiling texture

Layer No.: \_\_\_\_\_

Analyst Description of Material: Off-white lumpy chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>2</b>			Bulk/Binder 98

Sample No.: 18

Material: Ceiling texture

Layer No.: \_\_\_\_\_

Analyst Description of Material: Off-white lumpy chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>2</b>			Bulk/Binder 98

Sample No.: 19

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: Off-white chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	20	Bulk/Binder 80

Sample No.: 20

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: Off-white chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	20	Bulk/Binder 80

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53551

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-03

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/13/2011

Sample No.: 21

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: Off-white chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	20	Bulk/Binder 80

Sample No.: 22

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Hair	<1	Bulk/Binder 99.9

Sample No.: 23

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Hair	<1	Bulk/Binder 99.9

Sample No.: 24

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Hair	<1	Bulk/Binder 99.9

Sample No.: 25

Material: Duct tape

Layer No.: \_\_\_\_\_

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSTILE</b>	<b>85</b>			Bulk/Binder 15

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53551

RUSH TAT       

**Project Name:** Treece, Kansas  
**Address:** OR-W-03

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/13/2011

Sample No.: 28

Material: Wall texture

Layer No.:       

Analyst Description of Material: White lumpy chalky / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 29

Material: Wall texture

Layer No.:       

Analyst Description of Material: White lumpy chalky / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 30

Material: Wall texture

Layer No.:       

Analyst Description of Material: White lumpy chalky / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 31

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 31

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 40
		Fibrous glass	10	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53551

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-03

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/13/2011

Sample No.: 32

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 32

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 40
		Fibrous glass	10	

Sample No.: 33

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 33

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 40
		Fibrous glass	10	

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-07

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Friable **Yellow Sheet Vinyl Flooring** located in the Kitchen – Approximate Quantity: 250 SF
- *\*Sheetrock/Joint Compound* located throughout the structure.

*\*The sheetrock tested negative for asbestos, the joint compound tested positive for asbestos, however, the EPA and KDHE allow the laboratory to composite the joint compound and the sheetrock together and treat the sample as 1 material. In this case, the composited analysis indicates that the material has only a “trace” of asbestos, less than the greater than 1% asbestos, which means the sheetrock and joint compound composite material is considered **not** an asbestos-containing material.*

*Please note, that friable ACM, such as the sheet vinyl flooring, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 22, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-07

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53631

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-07

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 1

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 1

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	70	Bulk/Binder 25
		Fibrous glass	5	

Sample No.: 2

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 2

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	70	Bulk/Binder 25
		Fibrous glass	5	

Sample No.: 3

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53631

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-07

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 3

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	70	Bulk/Binder
		Fibrous glass	5	25

Sample No.: 4

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Yellow flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 4

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSTILE</b>	<b>65</b>			Bulk/Binder
				35

Sample No.: 7

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Green/yellow flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 7

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder
		Hair	5	35

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53631

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas

**Address:** OR-W-07

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 8

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Green/yellow flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 8

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 35
		Hair	5	

Sample No.: 9

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Green/yellow flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 9

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 35
		Hair	5	

Sample No.: 10

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53631

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-07

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 10

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 11

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 11

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 12

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 12

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53631

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-07

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 13

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only -2%</b>				

Sample No.: 14

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only -2%</b>				

Sample No.: 15

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only -2%</b>				

Sample No.: 16

Material: Shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	60	Bulk/Binder 40

Sample No.: 17

Material: Shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	60	Bulk/Binder 40

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53631  
 RUSH TAT \_\_\_\_\_  
**Project Name:** Treece, Kansas  
**Address:** OR-W-07

**Date sample collected:** 10/11-18/2011  
**Collected by:** Paul Van  
**Submitted by:** Paul Van  
**Date sample submitted:** 10/24/2011

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** 10/24/2011

Sample No.: 18  
 Layer No.: \_\_\_\_\_

Material: Shingle  
 Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	60	Bulk/Binder 40

Sample No.: \_\_\_\_\_  
 Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
 Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
 Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
 Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
 Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
 Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
 Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
 Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-08

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed between October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Nonfriable **9"x9" Brown Floor Tile** (mastic tested negative) located in the Hallway, beneath carpet – Approximate Quantity: 24 SF
- \**Sheetrock/Joint Compound* located throughout the structure.

*\*The sheetrock tested negative for asbestos, the joint compound tested positive for asbestos, however, the EPA and KDHE allow the laboratory to composite the joint compound and the sheetrock together and treat the sample as 1 material. In this case, the composited analysis indicates that the material has only a "trace" of asbestos, less than the greater than 1% asbestos, which means the sheetrock and joint compound composite material is considered **not** an asbestos-containing material.*

*\*Please note, that nonfriable ACM, such as the floor tile only needs to be abated prior to demolition activities that may disturb and render it friable by means such as sanding, grinding, cutting or abrading.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



14953 W. 101st Terr.  
 Lenexa, KS 66215  
 913-492-1337

**ASBESTOS INSPECTION DATA TABLE**

**Client:** Burns & McDonnell Engineering Co., Inc.  
**Address:** 9400 Ward Parkway  
**City:** Kansas City, Missouri 64114

**Survey Location:** Treece, Kansas  
**Address:** OR-W-08  
**Inspector:** Paul Van/George McDowell/Mark Hatler  
**Date:** October 10-18, 2011

Location	Material Description	Quantity	Asbestos	Friable	Sample #	General Notes
Interior	Sheetrock / Joint Compound*	NA	Trace	NA	1	Joint Compound tested positive/sheetrock tested negative, composite analysis indicates a TRACE amount of asbestos
Interior	Sheetrock / Joint Compound*	NA	Trace	NA	2	
Interior	Sheetrock / Joint Compound*	NA	Trace	NA	3	
Interior	Plaster	NA	No	NA	4	
Interior	Plaster	NA	No	NA	5	
Interior	Plaster	NA	No	NA	6	
Hallway	9"x9" Brown Floor Tile/Mastic	24 SF	YES/No	No	7	Tile=Positive Mastic=Negative - Beneath Carpet
Hallway	9"x9" Brown Floor Tile/Mastic		YES/No	No	8	
Hallway	9"x9" Brown Floor Tile/Mastic		YES/No	No	9	
Bathroom	Cream Vinyl Sheet Vinyl Flooring	NA	No	NA	10	
Bathroom	Cream Vinyl Sheet Vinyl Flooring	NA	No	NA	11	
Bathroom	Cream Vinyl Sheet Vinyl Flooring	NA	No	NA	12	
Main Room	Cream Vinyl Sheet Vinyl Flooring	NA	No	NA	13	
Main Room	Cream Vinyl Sheet Vinyl Flooring	NA	No	NA	14	
Main Room	Cream Vinyl Sheet Vinyl Flooring	NA	No	NA	15	
Kitchen	White/Green Sheet Vinyl Flooring	NA	No	NA	16	Top Layer
Kitchen	White/Green Sheet Vinyl Flooring	NA	No	NA	17	
Kitchen	White/Green Sheet Vinyl Flooring	NA	No	NA	18	
Backroom	White Sheet Vinyl Flooring	NA	No	NA	19	Middle Layer
Backroom	White Sheet Vinyl Flooring	NA	No	NA	20	
Backroom	White Sheet Vinyl Flooring	NA	No	NA	21	
Backroom	Brown Sheet Vinyl Flooring	NA	No	NA	22	Bottom Layer
Backroom	Brown Sheet Vinyl Flooring	NA	No	NA	23	
Backroom	Brown Sheet Vinyl Flooring	NA	No	NA	24	
Roof	Roof Shingle	NA	No	NA	25	
Roof	Roof Shingle	NA	No	NA	26	
Roof	Roof Shingle	NA	No	NA	27	

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 24, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-08

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53622

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-08

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 1

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/off-white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	12	Bulk/Binder 87.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 2

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/off-white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	12	Bulk/Binder 87.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 3

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/off-white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	12	Bulk/Binder 87.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 4

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED				Bulk/Binder 100

Sample No.: 5

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53622

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-08

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 6

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 7

Material: 9x9 floor tile

Layer No.: 1

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSTILE</b>	<b>5</b>			Bulk/Binder 95

Sample No.: 7

Material: Mastic

Layer No.: 2

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 8

Material: 9x9 floor tile

Layer No.: 1

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSTILE</b>	<b>5</b>			Bulk/Binder 95

Sample No.: 8

Material: Mastic

Layer No.: 2

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53622

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-08

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 9

Material: 9x9 floor tile

Layer No.: 1

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>5</b>			Bulk/Binder 95

Sample No.: 9

Material: Mastic

Layer No.: 2

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Material: Flooring

Layer No.: 1

Analyst Description of Material: Cream flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Material: Flooring backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	35	Bulk/Binder 65

Sample No.: 11

Material: Flooring

Layer No.: 1

Analyst Description of Material: Cream flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53622

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-08

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 11

Layer No.: 2

Material: Flooring backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	35	Bulk/Binder 65

Sample No.: 12

Layer No.: 1

Material: Flooring

Analyst Description of Material: Cream flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 12

Layer No.: 2

Material: Flooring backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	35	Bulk/Binder 65

Sample No.: 13

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 13

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	5	Bulk/Binder 95

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53622

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-08

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 14

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 14

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	5	Bulk/Binder 95

Sample No.: 15

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 15

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	5	Bulk/Binder 95

Sample No.: 16

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White/green flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53622

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-08

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 16

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder
		Fibrous glass	5	30
		Synthetic	5	

Sample No.: 17

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White/green flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 17

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder
		Fibrous glass	5	30
		Synthetic	5	

Sample No.: 18

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White/green flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 18

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder
		Fibrous glass	5	30
		Synthetic	5	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53622

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-08

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 19

Material: Linoleum

Layer No.: 1

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 19

Material: \_\_\_\_\_

Layer No.: 2

Analyst Description of Material: White/black compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Sample No.: 20

Material: Linoleum

Layer No.: 1

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 20

Material: \_\_\_\_\_

Layer No.: 2

Analyst Description of Material: White/black compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Sample No.: 21

Material: Linoleum

Layer No.: 1

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53622

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-08

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 21

Material: \_\_\_\_\_

Layer No.: 2

Analyst Description of Material: White/black compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder
		Hair	10	15

Sample No.: 22

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 22

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder
				25

Sample No.: 23

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 23

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder
				25

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53622

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-08

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 24

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 24

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 25

Sample No.: 25

Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 40

Sample No.: 26

Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 40

Sample No.: 27

Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 40

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-10

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed between October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Friable **Dark Brown Vinyl Sheet Flooring Backing** located in the bathroom –  
Approximate Quantity: 144 SF
- \**Sheetrock/Joint Compound* located throughout the structure.

*Please note, that friable ACM, such as the vinyl sheet flooring, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition.*

*\*The sheetrock tested negative for asbestos, the joint compound tested positive for asbestos, however, the EPA and KDHE allow the laboratory to composite the joint compound and the sheetrock together and treat the sample as 1 material. In this case, the composited analysis indicates that the material has only a "trace" of asbestos, less than*

*the greater than 1% asbestos, which means the sheetrock and joint compound composite material is considered **not** an asbestos-containing material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



14953 W. 101st Terr.  
 Lenexa, KS 66215  
 913-492-1337

**ASBESTOS INSPECTION DATA TABLE**

**Client:** Burns & McDonnell Engineering Co., Inc.  
**Address:** 9400 Ward Parkway  
**City:** Kansas City, Missouri 64114

**Survey Location:** Treece, Kansas  
**Address:** OR-W-10  
**Inspector:** Paul Van/George McDowell/Mark Hatler  
**Date:** October 10-18, 2011

Location	Material Description	Quantity	Asbestos	Friable	Sample #	General Notes
Dining Room	Brown Vinyl Sheet Flooring	NA	No/No	No	1	
Dining Room	Brown Vinyl Sheet Flooring	NA	No/No	No	2	
Dining Room	Brown Vinyl Sheet Flooring	NA	No/No	No	3	
Dining Room	1'x1' Ceiling Tile	NA	No	No	4	
Dining Room	1'x1' Ceiling Tile	NA	No	No	5	
Dining Room	1'x1' Ceiling Tile	NA	No	No	6	
Interior	Plaster	NA	No	No	7	
Interior	Plaster	NA	No	No	8	
Interior	Plaster	NA	No	No	9	
Kitchen	White Vinyl Sheet Flooring	NA	No	No	10	
Kitchen	White Vinyl Sheet Flooring	NA	No	No	11	
Kitchen	White Vinyl Sheet Flooring	NA	No	No	12	
<b>Bathroom</b>	<b>Dark Brown Vinyl Sheet Flooring</b>	<b>144 SF</b>	<b>No/Yes</b>	<b>Yes</b>	<b>13</b>	
					<b>14</b>	<b>Not Analyzed</b>
					<b>15</b>	<b>Not Analyzed</b>
<i>Interior</i>	<i>Sheetrock / Joint Compound*</i>	<i>NA</i>	<i>Trace</i>	<i>No</i>	<i>16</i>	<i>Joint Compound tested positive/sheetrock tested negative, composite analysis indicates a TRACE amount of asbestos</i>
<i>Interior</i>	<i>Sheetrock / Joint Compound*</i>	<i>NA</i>	<i>Trace</i>	<i>No</i>	<i>17</i>	
<i>Interior</i>	<i>Sheetrock / Joint Compound*</i>	<i>NA</i>	<i>Trace</i>	<i>No</i>	<i>18</i>	
Exterior	Roofing Shingles	NA	No	No	19	
Exterior	Roofing Shingles	NA	No	No	20	
Exterior	Roofing Shingles	NA	No	No	21	

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 19, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-10

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53584

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-10

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 1

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 1

Material: Backing

Layer No.: 2

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 44
		Fiberglass	3	
		Synthetic	3	

Sample No.: 1

Material: Backing

Layer No.: 3

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 20
		Hair	5	

Sample No.: 2

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 2

Material: Backing

Layer No.: 2

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 44
		Fiberglass	3	
		Synthetic	3	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53584  
 RUSH TAT \_\_\_\_\_  
**Project Name:** Treece, Kansas  
**Address:** OR-W-10

**Date sample collected:** 10/11-18/2011  
**Collected by:** Paul Van  
**Submitted by:** Paul Van  
**Date sample submitted:** 10/19/2011

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** 10/19/2011

Sample No.: 2  
 Layer No.: 3

Material: Backing  
 Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder
		Hair	5	20

Sample No.: 3  
 Layer No.: 1

Material: Linoleum  
 Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 3  
 Layer No.: 2

Material: Backing  
 Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder
		Fiberglass	3	44
		Synthetic	3	

Sample No.: 3  
 Layer No.: 3

Material: Backing  
 Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder
		Hair	5	20

Sample No.: 4  
 Layer No.: \_\_\_\_\_

Material: 1'x1' Ceiling Tile  
 Analyst Description of Material: Brown compact fibrous/paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	95	Bulk/Binder
				5

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53584

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-10

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 5

Material: 1'x1' Ceiling Tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous/paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	95	Bulk/Binder 5

Sample No.: 6

Material: 1'x1' Ceiling Tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous/paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	95	Bulk/Binder 5

Sample No.: 7

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious / white chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Hair	<1	Bulk/Binder 99.9

Sample No.: 8

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious / white chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Hair	<1	Bulk/Binder 99.9

Sample No.: 9

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious / white chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Hair	<1	Bulk/Binder 99.9

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53584

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-10

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 10

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 44
		Fibrous glass	3	
		Synthetic	3	

Sample No.: 11

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 11

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 44
		Fibrous glass	3	
		Synthetic	3	

Sample No.: 12

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53584

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-10

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 12

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 44
		Fibrous glass	3	
		Synthetic	3	

Sample No.: 13

Layer No.: 1 €

Material: Linoleum

Analyst Description of Material: Dk brown/white flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 13

Layer No.: 2 €

Material: Linoleum backing

Analyst Description of Material: Off-white compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>65</b>			Bulk/Binder 35

Sample No.: 16

Layer No.: \_\_\_\_\_ €

Material: Sheetrock / Joint compound

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>&lt;1</b>	Cellulose	15	Bulk/Binder 100

**\*\*Asbestos in joint compound only- 2%**

Sample No.: 17

Layer No.: \_\_\_\_\_ €

Material: Sheetrock / Joint compound

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>&lt;1</b>	Cellulose	15	Bulk/Binder 100

**\*\*Asbestos in joint compound only- 2%**

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53584

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-10

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 18

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_ €

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1	Cellulose	15	Bulk/Binder 100
<b>**Asbestos in joint compound only- 2%</b>				

Sample No.: 19

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 20

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 21

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 22

Material: Composite roof sheets

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53584

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-10

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 23

Material: Composite roof sheets

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 24

Material: Composite roof sheets

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 24, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-12

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Friable **Brown Sheet Vinyl Flooring** located in the Living Room (bottom layer) – Approximate Quantity: 225 SF
- Friable **Cream Sheet Vinyl Flooring** located in the Kitchen (bottom layer) – Approximate Quantity: 20 SF
- Friable **Blue Sheet Vinyl Flooring** located in the Hallway – Approximate Quantity: 20 SF
- \**Sheetrock/Joint Compound* located throughout the structure.

*\*Please note, that friable ACM, such as the sheet vinyl flooring, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the material.*

*\*The sheetrock tested negative for asbestos, the joint compound tested positive for asbestos, however, the EPA and KDHE allow the laboratory to composite the joint compound and the sheetrock together and treat the sample as 1 material. In this case, the composited analysis indicates that the material has only a "trace" of asbestos, less than the greater than 1% asbestos, which means the sheetrock and joint compound composite material is considered **not** an asbestos-containing material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



14953 W. 101st Terr.  
 Lenexa, KS 66215  
 913-492-1337

**ASBESTOS INSPECTION DATA TABLE**

**Client:** Burns & McDonnell Engineering Co., Inc.  
**Address:** 9400 Ward Parkway  
**City:** Kansas City, Missouri 64114

**Survey Location:** Treece, Kansas  
**Address:** OR-W-12  
**Inspector:** Paul Van/George McDowell/Mark Hatler  
**Date:** October 10-18, 2011

Location	Material Description	Quantity	Asbestos	Friable	Sample #	General Notes
Living Room	Red Vinyl Sheet Flooring	NA	No	No	1	Top Layer
Living Room	Red Vinyl Sheet Flooring	NA	No	No	2	
Living Room	Red Vinyl Sheet Flooring	NA	No	No	3	
Living Room	Brown Vinyl Sheet Flooring	225 SF	Yes	Yes	4	Bottom Layer
					5	Not Analyzed
					6	Not Analyzed
Kitchen	Brown Vinyl Sheet Flooring	NA	No	No	7	Top Layer
Kitchen	Brown Vinyl Sheet Flooring	NA	No	No	8	
Kitchen	Brown Vinyl Sheet Flooring	NA	No	No	9	
Kitchen	Cream Vinyl Sheet Flooring	20 SF	Yes	Yes	10	Bottom Layer
					11	Not Analyzed
					12	Not Analyzed
Hallway	Blue Vinyl Sheet Flooring	20 SF	Yes	Yes	13	
					14	Not Analyzed
					15	Not Analyzed
Bathroom	White/Blue Vinyl Sheet Flooring	NA	No	No	16	
Bathroom	White/Blue Vinyl Sheet Flooring	NA	No	No	17	
Bathroom	White/Blue Vinyl Sheet Flooring	NA	No	No	18	
Interior	Sheetrock / Joint Compound*	NA	Trace	No	19	Joint Compound tested positive/sheetrock tested negative, composite analysis indicates a TRACE amount of asbestos
Interior	Sheetrock / Joint Compound*	NA	Trace	No	20	
Interior	Sheetrock / Joint Compound*	NA	Trace	No	21	
Exterior	Roofing Shingles	NA	No	No	22	
Exterior	Roofing Shingles	NA	No	No	23	
Exterior	Roofing Shingles	NA	No	No	24	

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 24, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-12

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53621

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-12

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 1

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Red flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 1

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 20

Sample No.: 2

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Red flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 2

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 20

Sample No.: 3

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Red flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53621

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-12

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 3

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 20

Sample No.: 4

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSTILE</b>	<b>65</b>			Bulk/Binder 35

Sample No.: 5

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 5

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSTILE</b>	<b>65</b>			Bulk/Binder 35

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53621

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-12

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 6

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 6

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>65</b>			Bulk/Binder 35

Sample No.: 7

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 7

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 25

Sample No.: 8

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53621

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-12

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 8

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 25

Sample No.: 9

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 9

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 25

Sample No.: 10

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Material: Linoleum

Layer No.: 2

Analyst Description of Material: Off-white compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSTOLE</b>	<b>65</b>			Bulk/Binder 35

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53621

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-12

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 13

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Blue flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 13

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>65</b>			Bulk/Binder 35

Sample No.: 16

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White/blue flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 16

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Tan fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	12	Bulk/Binder 88

Sample No.: 17

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White/blue flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53621

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-12

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 17

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Tan fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	12	Bulk/Binder 88

Sample No.: 18

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White/blue flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 18

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Tan fibrous spongy

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	12	Bulk/Binder 88

Sample No.: 19

Layer No.: \_\_\_\_\_

Material: Sheetrock / Joint compound

Analyst Description of Material: White chalky/brown fibrous/off-white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1	Cellulose	15	Bulk/Binder 84.9

**\*\*Asbestos in joint compound only - 2%**

Sample No.: 20

Layer No.: \_\_\_\_\_

Material: Sheetrock / Joint compound

Analyst Description of Material: White chalky/brown fibrous/off-white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1	Cellulose	15	Bulk/Binder 84.9

**\*\*Asbestos in joint compound only - 2%**

Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53621

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-12

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/24/2011

Sample No.: 21

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/off-white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

November 2, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: "Revised" Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-21

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Friable **Sheetrock Backing** located throughout in the structure – Approximate Quantity: 645 SF

*\*Please note, that friable ACM, such as the sheetrock backing, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



14953 W. 101st Terr.  
 Lenexa, KS 66215  
 913-492-1337

**ASBESTOS INSPECTION DATA TABLE**

**Client:** Burns & McDonnell Engineering Co., Inc.  
**Address:** 9400 Ward Parkway  
**City:** Kansas City, Missouri 64114

**Survey Location:** Treece, Kansas  
**Address:** OR-W-21  
**Inspector:** Paul Van/George McDowell/Mark Hatler  
**Date:** October 10-18, 2011

Location	Material Description	Quantity	Asbestos	Friable	Sample #	General Notes
Interior	Sheetrock Backing/Joint Compound	645 SF	YES	Yes	1	Asbestos-Containing Sheetrock Backing      Ceilings Only
Interior	Sheetrock Backing/Joint Compound		YES	Yes	2	
Interior	Sheetrock Backing/Joint Compound		YES	Yes	3	
NW Room	1'x1' Ceiling Tile	NA	No	NA	4	
NW Room	1'x1' Ceiling Tile	NA	No	NA	5	
NW Room	1'x1' Ceiling Tile	NA	No	NA	6	
Hallway	2'x4' Ceiling Tile	NA	No	NA	7	
Hallway	2'x4' Ceiling Tile	NA	No	NA	8	
Hallway	2'x4' Ceiling Tile	NA	No	NA	9	
East Room	9"x9" Green Floor Tile/Mastic	NA	No/No	NA	10	
East Room	9"x9" Green Floor Tile/Mastic	NA	No/No	NA	11	
East Room	9"x9" Green Floor Tile/Mastic	NA	No/No	NA	12	
East Room	9"x9" Gray Floor Tile/Mastic	NA	No/No	NA	13	
East Room	9"x9" Gray Floor Tile/Mastic	NA	No/No	NA	14	
East Room	9"x9" Gray Floor Tile/Mastic	NA	No/No	NA	15	
NW Room	Green Sheet Vinyl Flooring	NA	No	NA	16	Top Layer
NW Room	Green Sheet Vinyl Flooring	NA	No	NA	17	
NW Room	Green Sheet Vinyl Flooring	NA	No	NA	18	
NW Room	White Sheet Vinyl Flooring	NA	No	NA	19	Bottom Layer
NW Room	White Sheet Vinyl Flooring	NA	No	NA	20	
NW Room	White Sheet Vinyl Flooring	NA	No	NA	21	
SW Room	White Sheet Vinyl Flooring w/design	NA	No	NA	22	Top Layer
SW Room	White Sheet Vinyl Flooring w/design	NA	No	NA	23	
SW Room	White Sheet Vinyl Flooring w/design	NA	No	NA	24	



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-21

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P. Van / M. Hatler

**Submitted by:** P. Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 1

Material: Sheetrock

Layer No.: 1

Analyst Description of Material: Lt tan chalky / brown fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	15	Bulk/Binder 85

Sample No.: 1

Material: Joint compound

Layer No.: 2

Analyst Description of Material: White textured chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 1

Material: Backing on white chalky material

Layer No.: 3

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>80</b>			Bulk/Binder 20

Sample No.: 2

Material: Sheetrock

Layer No.: 1

Analyst Description of Material: Lt tan chalky / brown fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	15	Bulk/Binder 85

Sample No.: 2

Material: Joint compound

Layer No.: 2

Analyst Description of Material: White textured chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P.Van / M. Hatler

**Submitted by:** P.Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 2

Layer No.: 3

Material: Backing on white chalky material

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>80</b>			Bulk/Binder 20

Sample No.: 3

Layer No.: 1

Material: Sheetrock

Analyst Description of Material: Lt tan chalky / brown fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	15	Bulk/Binder 85

Sample No.: 3

Layer No.: 2

Material: Joint compound

Analyst Description of Material: White textured chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 3

Layer No.: 3

Material: Backing on white chalky material

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>80</b>			Bulk/Binder 20

Sample No.: 4

Layer No.: \_\_\_\_\_

Material: 1x1 ceiling tile

Analyst Description of Material: Brown compact fibrous / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	95	Bulk/Binder 5

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P.Van / M. Hatler

**Submitted by:** P.Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 5

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	95	Bulk/Binder 5

Sample No.: 6

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	95	Bulk/Binder 5

Sample No.: 7

Material: 2x4 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray compact granular fibrous/white paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder 5
		Fibrous glass	40	Perlite 15

Sample No.: 8

Material: 2x4 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray compact granular fibrous/white paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder 5
		Fibrous glass	40	Perlite 15

Sample No.: 9

Material: 2x4 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray compact granular fibrous/white paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder 5
		Fibrous glass	40	Perlite 15

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P.Van / M. Hatler

**Submitted by:** P.Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 10

Material: 9x9 floor tile

Layer No.: 1

Analyst Description of Material: Green flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Material: Underlayment

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 15
		Hair	5	

Sample No.: 11

Material: 9x9 floor tile

Layer No.: 1

Analyst Description of Material: Green flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 11

Material: Underlayment

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 15
		Hair	5	

Sample No.: 12

Material: 9x9 floor tile

Layer No.: 1

Analyst Description of Material: Green flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas

**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P. Van / M. Hatler

**Submitted by:** P. Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 12

Layer No.: 2

Material: Underlayment

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder
		Hair	5	15

Sample No.: 13

Layer No.: 1

Material: 9x9 floor tile

Analyst Description of Material: Gray flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 13

Layer No.: 2

Material: Underlayment

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder
		Hair	5	15

Sample No.: 14

Layer No.: 1

Material: 9x9 floor tile

Analyst Description of Material: Gray flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 14

Layer No.: 2

Material: Underlayment

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder
		Hair	5	15

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-WM-21

**Date sample collected:** 10/11/2011  
**Collected by:** P.Van / M. Hatler  
**Submitted by:** P.Van / M. Hatler  
**Date sample submitted:** 10/12/2011

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:** 10/25/2011

Sample No.: 15  
 Layer No.: 1

Material: 9x9 floor tile

Analyst Description of Material: Gray flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 15  
 Layer No.: 2

Material: Underlayment

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 15
		Hair	5	

Sample No.: 16  
 Layer No.: 1

Material: Linoleum

Analyst Description of Material: Green flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 16  
 Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder 8
		Hair	2	

Sample No.: 17  
 Layer No.: 1

Material: Linoleum

Analyst Description of Material: Green flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545  
 RUSH TAT \_\_\_\_\_  
**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011  
**Collected by:** P.Van / M. Hatler  
**Submitted by:** P.Van / M. Hatler  
**Date sample submitted:** 10/12/2011

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** 10/25/2011

Sample No.: 17  
 Layer No.: 2

Material: Linoleum backing  
 Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Hair	2	8

Sample No.: 18  
 Layer No.: 1

Material: Linoleum  
 Analyst Description of Material: Green flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 18  
 Layer No.: 2

Material: Linoleum backing  
 Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Hair	2	8

Sample No.: 19  
 Layer No.: 1

Material: Linoleum  
 Analyst Description of Material: White flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 19  
 Layer No.: 2

Material: Linoleum backing  
 Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Hair	2	8

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P.Van / M. Hatler

**Submitted by:** P.Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 20

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 20

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder 8
		Hair	2	

Sample No.: 21

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 21

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder 8
		Hair	2	

Sample No.: 22

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White (design) flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P.Van / M. Hatler

**Submitted by:** P.Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 22

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Hair	2	8

Sample No.: 23

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White (design) flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 23

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Hair	2	8

Sample No.: 24

Layer No.: 1

Material: Linoleum

Analyst Description of Material: White (design) flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 24

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Hair	2	8

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P.Van / M. Hatler

**Submitted by:** P.Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 25

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Orange/white flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 25

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder 8
		Hair	2	

Sample No.: 26

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Orange/white flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 26

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder 8
		Hair	2	

Sample No.: 27

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Orange/white flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT         

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P. Van / M. Hatler

**Submitted by:** P. Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 27

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Hair	2	8

Sample No.: 28

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Gray/cream/orange flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 28

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Hair	2	8

Sample No.: 29

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Gray/cream/orange flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 29

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder
		Hair	2	8

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P.Van / M. Hatler

**Submitted by:** P.Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 30

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Gray/cream/orange flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 30

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	90	Bulk/Binder 8
		Hair	2	

Sample No.: 31

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	65	Bulk/Binder 25
		Hair	10	

Sample No.: 32

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	65	Bulk/Binder 25
		Hair	10	

Sample No.: 33

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	65	Bulk/Binder 25
		Hair	10	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53545

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-21

**Date sample collected:** 10/11/2011

**Collected by:** P.Van / M. Hatler

**Submitted by:** P.Van / M. Hatler

**Date sample submitted:** 10/12/2011

**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 34

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black tarry fibrous/ rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	65	Bulk/Binder
		Hair	10	25

Sample No.: 35

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black tarry fibrous/ rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	65	Bulk/Binder
		Hair	10	25

Sample No.: 36

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black tarry fibrous/ rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	65	Bulk/Binder
		Hair	10	25

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-22

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces. The structure has suffered extensive fire damage.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Nonfriable **Cementitious Siding Panels** located on the exterior of the building – Approximate Quantity: 300 SF

*\*Please note, that nonfriable, category II ACM, such as the cementitious siding panels, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the panels.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 12, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-22

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53626  
 RUSH TAT \_\_\_\_\_  
**Project Name:** Treece, Kansas  
**Address:** OR-W-22

**Date sample collected:** 10/11-18/2011  
**Collected by:** P. Van  
**Submitted by:** P. Van  
**Date sample submitted:** 10/24/2011

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** 10/24/2011

Sample No.: 1  
 Layer No.: \_\_\_\_\_

Material: Transite siding  
 Analyst Description of Material: Gray fibrous cementitious

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>15</b>			Bulk/Binder 85

Sample No.: 4  
 Layer No.: \_\_\_\_\_

Material: Roof shingle  
 Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: 5  
 Layer No.: \_\_\_\_\_

Material: Roof shingle  
 Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: 6  
 Layer No.: \_\_\_\_\_

Material: Roof shingle  
 Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: \_\_\_\_\_  
 Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
 Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 27, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-23

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Friable **Red Sheet Vinyl Flooring Backing** located in the bathroom (beneath carpet) – Approximate Quantity: 60 SF

*\*Please note, that friable, ACM, such as the sheet vinyl flooring needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 12, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-23

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53535

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-23

**Date sample collected:** 10/10/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/11/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/12/2011

Sample No.: 1

Layer No.: 1

Material: Sheet vinyl flooring

Analyst Description of Material: Red/black flat grooved pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 1

Layer No.: 2

Material: Flooring backing

Analyst Description of Material: White compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSTILE</b>	<b>65</b>			Bulk/Binder 35

Sample No.: 4

Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	30	Bulk/Binder 70

Sample No.: 5

Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	30	Bulk/Binder 70

Sample No.: 6

Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	30	Bulk/Binder 70

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

November 3, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: "Revised 2" Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-W-26

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Friable **Sheetrock Backing** located throughout in the structure – Approximate Quantity: 483 SF

*\*Please note, that friable ACM, such as the sheetrock backing, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 22, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-26

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53594

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-26

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/21/2011

Sample No.: 1

Material: Sheetrock

Layer No.: 1

Analyst Description of Material: White chalky / brown & white compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>3</b>	Cellulose	10	Bulk/Binder 87

Sample No.: 1

Material: Joint compound

Layer No.: 2

Analyst Description of Material: White shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 5

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Sample No.: 6

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Fibrous glass	20	Bulk/Binder 80

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

November 3, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: "Revised 2" Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building S-10 (V-12)

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Nonfriable **Roof Coating** (Roofing tested negative, top coating tested positive for asbestos) located on the roof, approximate Quantity: 50 SF

*\*Please note that nonfriable ACM, such as the roof coating only needs to be abated prior to demolition activities that may disturb and render it friable by means such as sanding, grinding, cutting or abrading.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 22, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – S-10 (V-12)

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53589

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** S-10 (V-12)

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/20/2011

Sample No.: 1

Material: Linoleum

Layer No.: \_\_\_\_\_

Analyst Description of Material: Tan flat thin pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 2

Material: Linoleum

Layer No.: \_\_\_\_\_

Analyst Description of Material: Tan flat thin pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 3

Material: Linoleum

Layer No.: \_\_\_\_\_

Analyst Description of Material: Tan flat thin pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 15
		Fibrous glass	5	

Sample No.: 5

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 15
		Fibrous glass	5	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53589

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** S-10 (V-12)

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/20/2011

Sample No.: 6

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder
		Fibrous glass	5	15

Sample No.: 7

Material: Roofing

Layer No.: 1

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	55	Bulk/Binder
		Hair	10	35

Sample No.: 7

Material: Roofing (coating on rocks)

Layer No.: 2

Analyst Description of Material: Gray fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<b>55</b>			Bulk/Binder
				45

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building S-12 (V-30)

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- Friable **Ceiling Texture** located in the throughout the structure (excluding the Kitchen) – Approximate Quantity: 750 SF

*\*Please note, that friable ACM, such as the ceiling texture, needs to be abated by a State of Kansas licensed asbestos abatement contractor prior to demolition activities that may disturb the material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



14953 W. 101st Terr.  
 Lenexa, KS 66215  
 913-492-1337

**ASBESTOS INSPECTION DATA TABLE**

**Client:** Burns & McDonnell Engineering Co., Inc.  
**Address:** 9400 Ward Parkway  
**City:** Kansas City, Missouri 64114

**Survey Location:** Treece, Kansas  
**Address:** S-12 (V-30)  
**Inspector:** Paul Van/George McDowell/Mark Hatler  
**Date:** October 10-18, 2011

Location	Material Description	Quantity	Asbestos	Friable	Sample #	General Notes
Interior	Ceiling Texture	750 SF	YES	Yes	1	Ceiling Testure in Kitchen is Not Asbestos-Containing
Interior	Ceiling Texture		Not Anayzed	Yes	2	
Interior	Ceiling Texture		Not Anayzed	Yes	3	
Interior	Plaster	NA	No	NA	4	
Interior	Plaster	NA	No	NA	5	
Interior	Plaster	NA	No	NA	6	
Kitchen	Wall/Ceiling Texture	NA	No	NA	7	
Kitchen	Wall/Ceiling Texture	NA	No	NA	8	
Kitchen	Wall/Ceiling Texture	NA	No	NA	9	
Kitchen	Cream Sheet Vinyl Flooring	NA	No	NA	10	Beneath subfloor
Kitchen	Cream Sheet Vinyl Flooring	NA	No	NA	11	
Kitchen	Cream Sheet Vinyl Flooring	NA	No	NA	12	
Bathroom	12"x12" White Floor Tile	NA	No/No	NA	13	
Bathroom	12"x12" White Floor Tile	NA	No/No	NA	14	
Bathroom	12"x12" White Floor Tile	NA	No/No	NA	15	
Interior	1'x1' Ceiling Tile	NA	No	NA	16	
Interior	1'x1' Ceiling Tile	NA	No	NA	17	
Interior	1'x1' Ceiling Tile	NA	No	NA	18	
Roof	Roof Shingle	NA	No	NA	19	2 Layers of Roofing
Roof	Roof Shingle	NA	No	NA	20	
Roof	Roof Shingle	NA	No	NA	21	

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 22, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – S-12 (V-30)

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

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If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53593

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** S-12 (V-30)

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/21/2011

Sample No.: 1

Material: Texture

Layer No.: \_\_\_\_\_

Analyst Description of Material: Off-white chalky / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYSTILE</b>	<b>3</b>			Bulk/Binder 97

Sample No.: 4

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 5

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 6

Material: Plaster

Layer No.: \_\_\_\_\_

Analyst Description of Material: Gray rocky cementitious

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 7

Material: Texture

Layer No.: \_\_\_\_\_

Analyst Description of Material: Thick white chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53593

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** S-12 (V-30)

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/21/2011

Sample No.: 8

Material: Texture

Layer No.: \_\_\_\_\_

Analyst Description of Material: Thick white chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 9

Material: Texture

Layer No.: \_\_\_\_\_

Analyst Description of Material: Thick white chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Fibrous glass	10	

Sample No.: 11

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53593

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** S-12 (V-30)

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/21/2011

Sample No.: 11

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Fibrous glass	10	

Sample No.: 12

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 12

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Fibrous glass	10	

Sample No.: 13

Layer No.: 1

Material: 12x12 floor tile

Analyst Description of Material: Off-white flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 13

Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53593

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** S-12 (V-30)

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/21/2011

Sample No.: 14

Layer No.: 1

Material: 12x12 floor tile

Analyst Description of Material: Off-white flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED				Bulk/Binder 100

Sample No.: 14

Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED				Bulk/Binder 100

Sample No.: 15

Layer No.: 1

Material: 12x12 floor tile

Analyst Description of Material: Off-white flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED				Bulk/Binder 100

Sample No.: 15

Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED				Bulk/Binder 100

Sample No.: 16

Layer No.: \_\_\_\_\_

Material: 1x1 ceiling tile

Analyst Description of Material: Brown compact fibrous / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	97	Bulk/Binder 3

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53593

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** S-12 (V-30)

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/21/2011

Sample No.: 17

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	97	Bulk/Binder 3

Sample No.: 18

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous / paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	97	Bulk/Binder 3

Sample No.: 19

Material: Roof shingle

Layer No.: 1

Analyst Description of Material: Black fibrous tar / white rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder 60

Sample No.: 19

Material: Roof shingle

Layer No.: 2

Analyst Description of Material: Black fibrous tar / brown rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder 60

Sample No.: 20

Material: Roof shingle

Layer No.: 1

Analyst Description of Material: Black fibrous tar / white rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder 60

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53593

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** S-12 (V-30)

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/21/2011

Sample No.: 20

Layer No.: 2

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / brown rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder 60

Sample No.: 21

Layer No.: 1

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / white rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder 60

Sample No.: 21

Layer No.: 2

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / brown rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	40	Bulk/Binder 60

Sample No.: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-M-17 L

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed between October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- *\*Sheetrock/Joint Compound* located throughout the structure.

*\*The sheetrock tested negative for asbestos, the joint compound tested positive for asbestos, however, the EPA and KDHE allow the laboratory to composite the joint compound and the sheetrock together and treat the sample as 1 material. In this case, the composited analysis indicates that the material has only a "trace" of asbestos, less than the greater than 1% asbestos, which means the sheetrock and joint compound composite material is considered **not** an asbestos-containing material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-M-17L

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53624

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-M-17L

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 1

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 2

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 3

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 4

Material: 12x12 floor tile

Layer No.: 1

Analyst Description of Material: Cream flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED				Bulk/Binder 100

Sample No.: 4

Material: Mastic

Layer No.: 2

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	10	Bulk/Binder 90

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-C

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53624

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-M-17L

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 5

Material: 12x12 floor tile

Layer No.: 1

Analyst Description of Material: Cream flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 5

Material: Mastic

Layer No.: 2

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	10	Bulk/Binder 90

Sample No.: 6

Material: 12x12 floor tile

Layer No.: 1

Analyst Description of Material: Cream flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 6

Material: Mastic

Layer No.: 2

Analyst Description of Material: Black tarry

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	10	Bulk/Binder 90

Sample No.: 7

Material: Linoleum

Layer No.: 1

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53624

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas

**Address:** OR-M-17L

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 7

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	65	Bulk/Binder
		Hair	10	14

Sample No.: 8

Material: Linoleum

Layer No.: 1

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 8

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	65	Bulk/Binder
		Hair	10	14

Sample No.: 9

Material: Linoleum

Layer No.: 1

Analyst Description of Material: White flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder
				100

Sample No.: 9

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	65	Bulk/Binder
		Hair	10	14

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53624

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-M-17L

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 10

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: 11

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: 12

Material: Composite siding

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black tarry fibrous / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: 13

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: 14

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-C

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53624

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas

**Address:** OR-M-17L

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/24/2011

**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** 10/25/2011

Sample No.: 15

Material: Roof shingle

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	50	Bulk/Binder 50

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-C

Client Name:  
Address:

REPORT NO.: \_\_\_\_\_  
RUSH TAT \_\_\_\_\_

Project Name:  
Address:

Date sample collected:  
Collected by:  
Submitted by:  
Date sample submitted:

Project No.:  
Analyst: Tami Van  
Analysis Date:

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-C

**Client Name:**  
**Address:**

**REPORT NO.:** \_\_\_\_\_  
RUSH TAT \_\_\_\_\_

**Project Name:**  
**Address:**

**Date sample collected:**  
**Collected by:**  
**Submitted by:**  
**Date sample submitted:**

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:**

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-C

**Client Name:**  
**Address:**

**REPORT NO.:** \_\_\_\_\_  
RUSH TAT \_\_\_\_\_

**Project Name:**  
**Address:**

**Date sample collected:**  
**Collected by:**  
**Submitted by:**  
**Date sample submitted:**

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:**

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_  
Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_  
Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
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Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

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Analyst: T. Van

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Analyst: T. Van

Laboratory Director: **Tami Van**

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Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

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Analyst: T. Van

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Sample No.: \_\_\_\_\_

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Analyst: T. Van

Laboratory Director: Tami Van

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab

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**Analyst:** Tami Van  
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Analyst: T. Van

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NVLAP Lab

**Client Name:** \_\_\_\_\_

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Analyst: T. Van

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Analyst: T. Van

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Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>		<u>Non-Fibrous Percentage</u>
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					Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab

**Client Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_

RUSH TAT \_\_\_\_\_

**Project Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_

**Collected by:** \_\_\_\_\_

**Submitted by:** \_\_\_\_\_

**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** \_\_\_\_\_

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>		<u>Non-Fibrous Percentage</u>
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Analyst: T. Van

Laboratory Director: **Tami Van**

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Analyst: T. Van

Laboratory Director: Tami Van

# Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab

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**Project Name:** \_\_\_\_\_

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**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** \_\_\_\_\_

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Analyst: T. Van

Laboratory Director: **Tami Van**

# Asbestos Bulk Analysis Laboratory Report

Code: 101649-

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
 RUSH TAT \_\_\_\_\_  
**Project Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** \_\_\_\_\_

_____ _____	Sample No.: _____ Layer No.: _____	Material: _____	Analyst Description of Material: _____						
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Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

# Asbestos Bulk Analysis Laboratory Report

Code: 101649-

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
 RUSH TAT \_\_\_\_\_  
**Project Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** \_\_\_\_\_

_____ _____ ntage	Sample No.: _____ Layer No.: _____ <b>Asbestos Fiber Type</b>	Percentage	Material: _____ Analyst Description of Material: _____	Non-Asbestos Fiber Type	Percentage	Non-F Bulk/Binder
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Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

## Asbestos Bulk Analysis Laboratory Report

Code: 101649-

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
 RUSH TAT \_\_\_\_\_  
**Project Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** \_\_\_\_\_

_____ _____ ntage	Sample No.: _____ Layer No.: _____	Material: _____ Analyst Description of Material: _____	_____ _____	_____ _____	Non-F Bulk/Binder
	<b><u>Asbestos Fiber Type</u></b>	<b><u>Percentage</u></b>	<b><u>Non-Asbestos Fiber Type</u></b>	<b><u>Percentage</u></b>	

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Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

## Asbestos Bulk Analysis Laboratory Report

Code: 101649-

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
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**Project Name:** \_\_\_\_\_  
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**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** \_\_\_\_\_

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Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

## Asbestos Bulk Analysis Laboratory Report

Code: 101649-

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
 RUSH TAT \_\_\_\_\_  
**Project Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
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Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

## Asbestos Bulk Analysis Laboratory Report

Code: 101649-

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
 RUSH TAT \_\_\_\_\_  
**Project Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** \_\_\_\_\_

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Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

## Asbestos Bulk Analysis Laboratory Report

Code: 101649-

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
 RUSH TAT \_\_\_\_\_  
**Project Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** \_\_\_\_\_

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Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

## Asbestos Bulk Analysis Laboratory Report

Code: 101649-

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
 RUSH TAT \_\_\_\_\_  
**Project Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** \_\_\_\_\_

_____ _____ ntage	Sample No.: _____ Layer No.: _____	Material: _____ Analyst Description of Material: _____	_____ _____	_____ _____	_____ _____ Bulk/Binder
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	<b><u>Asbestos Fiber Type</u></b>	<b><u>Percentage</u></b>	<b><u>Non-Asbestos Fiber Type</u></b>	<b><u>Percentage</u></b>	<b><u>Non-F</u></b>

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Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

# Asbestos Bulk Analysis Laboratory Report

NVLAP Lab Code: 101649

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 4

Client Name: \_\_\_\_\_  
Address: \_\_\_\_\_

REPORT NO.: \_\_\_\_\_  
RUSH TAT \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Date sample collected: \_\_\_\_\_  
Collected by: \_\_\_\_\_  
Submitted by: \_\_\_\_\_  
Date sample submitted: \_\_\_\_\_

Project No.: \_\_\_\_\_  
Analyst: \_\_\_\_\_  
Analysis Date: \_\_\_\_\_

	Sample No.: _____ Layer No.: _____	Material: _____ Analyst Description of Material: _____
<u>Fibrous Percentage</u> r	<b><u>Asbestos Fiber Type</u></b> <u>Percentage</u>	<b><u>Non-Asbestos Fiber Type</u></b> <u>Percentage</u>
<u>Fibrous Percentage</u> r	<b><u>Asbestos Fiber Type</u></b> <u>Percentage</u>	<b><u>Non-Asbestos Fiber Type</u></b> <u>Percentage</u>
<u>Fibrous Percentage</u> r	<b><u>Asbestos Fiber Type</u></b> <u>Percentage</u>	<b><u>Non-Asbestos Fiber Type</u></b> <u>Percentage</u>
<u>Fibrous Percentage</u> r	<b><u>Asbestos Fiber Type</u></b> <u>Percentage</u>	<b><u>Non-Asbestos Fiber Type</u></b> <u>Percentage</u>
<u>Fibrous Percentage</u> r	<b><u>Asbestos Fiber Type</u></b> <u>Percentage</u>	<b><u>Non-Asbestos Fiber Type</u></b> <u>Percentage</u>

Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

# Asbestos Bulk Analysis Laboratory Report

NVLAP Lab Code: 101649

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 4

Client Name: \_\_\_\_\_

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Project Name: \_\_\_\_\_

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Analysis Date: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

Asbestos Fiber Type      Percentage

Non-Asbestos Fiber Type      Percentage

r

\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

Asbestos Fiber Type      Percentage

Non-Asbestos Fiber Type      Percentage

r

\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

Asbestos Fiber Type      Percentage

Non-Asbestos Fiber Type      Percentage

r

\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

Asbestos Fiber Type      Percentage

Non-Asbestos Fiber Type      Percentage

r

\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

Asbestos Fiber Type      Percentage

Non-Asbestos Fiber Type      Percentage

r

Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_



# Asbestos Bulk Analysis Laboratory Report

NVLAP Lab Code: 101649

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**Analysis Date:** \_\_\_\_\_

	Sample No.: _____ Layer No.: _____	Material: _____ Analyst Description of Material: _____	
_____ _____ <u>Fibrous Percentage</u> r	<u>Asbestos Fiber Type</u> <u>Percentage</u>	<u>Non-Asbestos Fiber Type</u> <u>Percentage</u>	
_____ _____ <u>Fibrous Percentage</u> r	<u>Asbestos Fiber Type</u> <u>Percentage</u>	<u>Non-Asbestos Fiber Type</u> <u>Percentage</u>	
_____ _____ <u>Fibrous Percentage</u> r	<u>Asbestos Fiber Type</u> <u>Percentage</u>	<u>Non-Asbestos Fiber Type</u> <u>Percentage</u>	
_____ _____ <u>Fibrous Percentage</u> r	<u>Asbestos Fiber Type</u> <u>Percentage</u>	<u>Non-Asbestos Fiber Type</u> <u>Percentage</u>	
_____ _____ <u>Fibrous Percentage</u> r	<u>Asbestos Fiber Type</u> <u>Percentage</u>	<u>Non-Asbestos Fiber Type</u> <u>Percentage</u>	

Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_

# Asbestos Bulk Analysis Laboratory Report

NVLAP Lab Code: 101649

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 4

Client Name: \_\_\_\_\_

Address: \_\_\_\_\_

REPORT NO.: \_\_\_\_\_

RUSH TAT \_\_\_\_\_

Project Name: \_\_\_\_\_

Address: \_\_\_\_\_

Date sample collected: \_\_\_\_\_

Collected by: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Date sample submitted: \_\_\_\_\_

Project No.: \_\_\_\_\_

Analyst: \_\_\_\_\_

Analysis Date: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

**Asbestos Fiber Type**      Percentage

Non-Asbestos Fiber Type      Percentage

r

\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

**Asbestos Fiber Type**      Percentage

Non-Asbestos Fiber Type      Percentage

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\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

**Asbestos Fiber Type**      Percentage

Non-Asbestos Fiber Type      Percentage

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\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

**Asbestos Fiber Type**      Percentage

Non-Asbestos Fiber Type      Percentage

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\_\_\_\_\_  
\_\_\_\_\_

Sample No.: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

Fibrous Percentage

**Asbestos Fiber Type**      Percentage

Non-Asbestos Fiber Type      Percentage

r

Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_



# Asbestos Bulk Analysis Laboratory Report

NVLAP Lab Code: 101649

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 4

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
 RUSH TAT \_\_\_\_\_  
**Project Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_  
**Analyst:** \_\_\_\_\_  
**Analysis Date:** \_\_\_\_\_

	Sample No.: _____ Layer No.: _____	Material: _____ Analyst Description of Material: _____	
<u>Fibrous Percentage</u>	<u>Asbestos Fiber Type</u> <u>Percentage</u>	<u>Non-Asbestos Fiber Type</u> <u>Percentage</u>	
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r			
r			
r			
r			

Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_





# Asbestos Bulk Analysis Laboratory Report

NVLAP Lab Code: 101649

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 4

**Client Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**REPORT NO.:** \_\_\_\_\_  
 RUSH TAT \_\_\_\_\_  
**Project Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_

**Date sample collected:** \_\_\_\_\_  
**Collected by:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Date sample submitted:** \_\_\_\_\_

**Project No.:** \_\_\_\_\_  
**Analyst:** \_\_\_\_\_  
**Analysis Date:** \_\_\_\_\_

	Sample No.: _____ Layer No.: _____	Material: _____ Analyst Description of Material: _____	
<u>Fibrous Percentage</u>	<u>Asbestos Fiber Type</u> <u>Percentage</u>	<u>Non-Asbestos Fiber Type</u> <u>Percentage</u>	
r			
r			
r			
r			
r			
r			

Analyst: \_\_\_\_\_ Laboratory Director: \_\_\_\_\_



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Tami Van

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|| Non-Fibrous Percentage

Bulk/Binder

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Tami Van

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|| Non-Fibrous Percentage

Bulk/Binder

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|| Non-Fibrous Percentage

Bulk/Binder

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# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

November 3, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: "Revised 2" Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Structure – Building OR-M-26 (house)

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed between October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- *\*Sheetrock/Joint Compound* located throughout the structure.

*\*The sheetrock tested negative for asbestos, the joint compound tested positive for asbestos, however, the EPA and KDHE allow the laboratory to composite the joint compound and the sheetrock together and treat the sample as 1 material. In this case, the composited analysis indicates that the material has only a "trace" of asbestos, less than the greater than 1% asbestos, which means the sheetrock and joint compound composite material is considered **not** an asbestos-containing material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 19, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-M-26 (house)

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53587

RUSH TAT       

**Project Name:** Treece, Kansas  
**Address:** OR-M-26 (house)

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 1

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Blue flat smooth thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 1

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Sample No.: 2

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Blue flat smooth thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 2

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Sample No.: 3

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Blue flat smooth thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53587

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-M-26 (house)

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/19/2011

**Project No.:** \_\_\_\_\_

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 3

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Sample No.: 4

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Sample No.: 5

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 5

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53587

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-M-26 (house)

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 6

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Brown flat smooth thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 6

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Sample No.: 7

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1	Cellulose	10	Bulk/Binder 89.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 8

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1	Cellulose	10	Bulk/Binder 89.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 9

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1	Cellulose	10	Bulk/Binder 89.9
<b>**Asbestos in joint compound only - 2%</b>				

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53587

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-M-26 (house)

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 10

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Red flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 11

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Red flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 11

Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 12

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Red flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53587

RUSH TAT         

**Project Name:** Treece, Kansas  
**Address:** OR-M-26 (house)

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 12

Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 13

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Green flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 13

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Sample No.: 14

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Green flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 14

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53587

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas

**Address:** OR-M-26 (house)

**Date sample collected:** 10/11-18/2011

**Collected by:** P. Van

**Submitted by:** P. Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/19/2011

Sample No.: 15

Layer No.: 1

Material: Linoleum

Analyst Description of Material: Green flat thin brittle

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 15

Layer No.: 2

Material: Linoleum backing

Analyst Description of Material: Black tarry fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Hair	10	

Sample No.: 16

Layer No.: \_\_\_\_\_

Material: Roofing

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	45	Bulk/Binder 55

Sample No.: 17

Layer No.: \_\_\_\_\_

Material: Roofing

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	45	Bulk/Binder 55

Sample No.: 18

Layer No.: \_\_\_\_\_

Material: Roofing

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	45	Bulk/Binder 55

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 22, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Residential Structure – Building OR-W-01

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant residential structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed between October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- \*Friable *Sheetrock/Joint Compound* located throughout the structure.

*\*The sheetrock tested negative for asbestos, the joint compound tested positive for asbestos, however, the EPA and KDHE allow the laboratory to composite the joint compound and the sheetrock together and treat the sample as 1 material. In this case, the composited analysis indicates that the material has only a "trace" of asbestos, less than the greater than 1% asbestos, which means the sheetrock and joint compound composite material is considered **not** an asbestos-containing material.*

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 22, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-01

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of ACT.

If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53606

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-01

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/22/2011

Sample No.: 1

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	20	Bulk/Binder 79.9
<b>**Asbestos in joint compound only- 2%</b>				

Sample No.: 2

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	20	Bulk/Binder 79.9
<b>**Asbestos in joint compound only- 2%</b>				

Sample No.: 3

Material: Sheetrock / Joint compound

Layer No.: \_\_\_\_\_

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	20	Bulk/Binder 79.9
<b>**Asbestos in joint compound only- 2%</b>				

Sample No.: 4

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous/ paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	97	Bulk/Binder 3

Sample No.: 5

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous/ paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	97	Bulk/Binder 3

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53606

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-01

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/22/2011

Sample No.: 6

Material: 1x1 ceiling tile

Layer No.: \_\_\_\_\_

Analyst Description of Material: Brown compact fibrous/ paint

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	97	Bulk/Binder 3

Sample No.: 7

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Tan flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 7

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 5
		Hair	15	

Sample No.: 8

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Tan flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 8

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 5
		Hair	15	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53606

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-01

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/22/2011

Sample No.: 9

Material: Linoleum

Layer No.: 1

Analyst Description of Material: Tan flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 9

Material: Linoleum backing

Layer No.: 2

Analyst Description of Material: Gray compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	80	Bulk/Binder 5
		Hair	15	

Sample No.: 10

Material: 12x12 floor tile

Layer No.: 1

Analyst Description of Material: White/tan flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10

Material: Adhesive

Layer No.: 2

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 11

Material: 12x12 floor tile

Layer No.: 1

Analyst Description of Material: White/tan flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53606

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-01

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/22/2011

Sample No.: 11

Material: Adhesive

Layer No.: 2

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 12

Material: 12x12 floor tile

Layer No.: 1

Analyst Description of Material: White/tan flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 12

Material: Adhesive

Layer No.: 2

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 13

Material: Roofing

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 40

Sample No.: 14

Material: Roofing

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	60	Bulk/Binder 40

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53606

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-01

**Date sample collected:** 10/11-18/2011

**Collected by:** Paul Van

**Submitted by:** Paul Van

**Date sample submitted:** 10/19/2011

**Project No.:**

**Analyst:** Tami Van

**Analysis Date:** 10/22/2011

Sample No.: 15

Material: Roofing

Layer No.: \_\_\_\_\_

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Cellulose	60	Bulk/Binder 40

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Sample No.: \_\_\_\_\_

Material: \_\_\_\_\_

Layer No.: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**

# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 25, 2011

Mr. Ken Simmons  
Burns & McDonnell Engineering Co., Inc.  
9400 Ward Parkway  
Kansas City, Missouri 64114

Re: Asbestos-Containing Material Demolition Survey Report  
Treece, Kansas - Vacant Commercial Structure – Building OR-W-04

Dear Mr. Simmons,

Asbestos Consulting and Testing, Inc. (ACT) has completed the asbestos-containing material demolition survey for the vacant commercial structure referenced above. Each area of the structure was surveyed, and there were no inaccessible spaces.

The survey was performed on October 10-18, 2011 by ACT representatives and EPA accredited asbestos inspectors.

Following the completion of the survey and sampling activities, the collected samples were submitted to the NVLAP accredited, ACT testing laboratory for analysis utilizing polarized light microscopy with dispersion staining.

The results of the material sampling laboratory analysis indicate the following sampled building materials tested positive and are considered **asbestos-containing materials (ACM)**:

- **Joint Compound** associated with the sheetrock material (sheetrock tested negative, composite analysis indicates the sheetrock/joint compound material is “trace”, which is less than >1%. The EPA and the State of Kansas consider this material to be not asbestos-containing

Please find the attached *Asbestos Inspection Data Table* for sample material locations.

Please feel free to contact me with any questions you may have regarding this report.

Sincerely,  
ACT

*George S. McDowell*

George S. McDowell

Attachments:       Asbestos Inspection Data Table  
                          Bulk Sample Analysis Report



# ACT

14953 W. 101<sup>st</sup> Terrace  
Lenexa, Kansas 66215  
(913) 492-1337 • Fax (913) 492-1392

October 14, 2011

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Project: Treece, Kansas – OR-W-04

Enclosed please find results for the bulk samples submitted to our laboratory for asbestos analysis from the above referenced project.

The asbestos analysis was performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA test method for the determination of asbestos in bulk samples, EPA/600/R-93/116. If the sample was inhomogeneous (layered), the components or sub-samples were analyzed and reported separately. The percentage of fibers is listed. The method of measurement is based on calibrated visual estimation. The data provided herein is related only to those samples submitted for analysis. Samples comprised of greater than one percent (1%) asbestos are to be considered an asbestos containing material.

Verification by PLM point counting is available upon request. Due to the limitations of the PLM microscope and the matrix of floor tile, any floor tile sample found to contain NO asbestos may be verified by TEM analysis upon the client's request.

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If you have any questions, please contact me at 913-492-1337.

Respectfully submitted,

**Tami L. Van**

Laboratory Director  
NVLAP Lab Code: 101649-0

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53546

RUSH TAT

**Project Name:** Treece, Kansas  
**Address:** OR-W-04

**Date sample collected:** 10/11/2011  
**Collected by:** Paul Van / Mark Hatler  
**Submitted by:** Paul Van / Mark Hatler  
**Date sample submitted:** 10/12/2011

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:** 10/14/2011

Sample No.: 1  
 Layer No.: 1

Material: 12x12 floor tile

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>			Bulk/Binder	100

Sample No.: 1  
 Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>			Bulk/Binder	100

Sample No.: 2  
 Layer No.: 1

Material: 12x12 floor tile

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>			Bulk/Binder	100

Sample No.: 2  
 Layer No.: 2

Material: Adhesive

Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>			Bulk/Binder	100

Sample No.: 3  
 Layer No.: 1

Material: 12x12 floor tile

Analyst Description of Material: Brown flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>			Bulk/Binder	100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53546

RUSH TAT       

**Project Name:** Treece, Kansas  
**Address:** OR-W-04

**Date sample collected:** 10/11/2011  
**Collected by:** Paul Van / Mark Hatler  
**Submitted by:** Paul Van / Mark Hatler  
**Date sample submitted:** 10/12/2011

**Project No.:**  
**Analyst:** Tami Van  
**Analysis Date:** 10/14/2011

Sample No.: 3  
 Layer No.: 2

Material: Adhesive  
 Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4  
 Layer No.: 1

Material: Linoleum  
 Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 4  
 Layer No.: 2

Material: Linoleum backing  
 Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Fibrous glass	10	

Sample No.: 5  
 Layer No.: 1

Material: Linoleum  
 Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 5  
 Layer No.: 2

Material: Linoleum backing  
 Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Fibrous glass	10	

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53546  
 RUSH TAT \_\_\_\_\_  
**Project Name:** Treece, Kansas  
**Address:** OR-W-04

**Date sample collected:** 10/11/2011  
**Collected by:** Paul Van / Mark Hatler  
**Submitted by:** Paul Van / Mark Hatler  
**Date sample submitted:** 10/12/2011

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** 10/14/2011

Sample No.: 6  
 Layer No.: 1

Material: Linoleum  
 Analyst Description of Material: Cream flat smooth pliable

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 6  
 Layer No.: 2

Material: Linoleum backing  
 Analyst Description of Material: Tan compact fibrous

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>		Cellulose	75	Bulk/Binder 15
		Fibrous glass	10	

Sample No.: 7  
 Layer No.: 1

Material: 12x12 floor tile  
 Analyst Description of Material: White/blue flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 7  
 Layer No.: 2

Material: Adhesive  
 Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 8  
 Layer No.: 1

Material: 12x12 floor tile  
 Analyst Description of Material: White/blue flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53546

RUSH TAT         

**Project Name:** Treece, Kansas  
**Address:** OR-W-04

**Date sample collected:** 10/11/2011  
**Collected by:** Paul Van / Mark Hatler  
**Submitted by:** Paul Van / Mark Hatler  
**Date sample submitted:** 10/12/2011

**Project No.:**           
**Analyst:** Tami Van  
**Analysis Date:** 10/14/2011

Sample No.: 8  
 Layer No.: 2

Material: Adhesive  
 Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 9  
 Layer No.: 1

Material: 12x12 floor tile  
 Analyst Description of Material: White/blue flat smooth hard

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 9  
 Layer No.: 2

Material: Adhesive  
 Analyst Description of Material: Clear sticky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>NONE DETECTED</b>				Bulk/Binder 100

Sample No.: 10  
 Layer No.:         

Material: Sheetrock / Joint compound  
 Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 11  
 Layer No.:         

Material: Sheetrock / Joint compound  
 Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
<b>CHRYBOTILE</b>	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only - 2%</b>				

Analyst: T. Van

Laboratory Director: **Tami Van**

## Asbestos Bulk Analysis Laboratory Report

Asbestos Consulting Testing (ACT) 14953 W. 101st Terrace, Lenexa, KS 66215 (913) 492-1337

NVLAP Lab Code: 101649-0

**Client Name:** Burns & McDonnell  
**Address:** 9400 Ward Parkway  
 Kansas City, MO 64114

**REPORT NO.:** B-53546

RUSH TAT \_\_\_\_\_

**Project Name:** Treece, Kansas  
**Address:** OR-W-04

**Date sample collected:** 10/11/2011  
**Collected by:** Paul Van / Mark Hatler  
**Submitted by:** Paul Van / Mark Hatler  
**Date sample submitted:** 10/12/2011

**Project No.:** \_\_\_\_\_  
**Analyst:** Tami Van  
**Analysis Date:** 10/14/2011

Sample No.: 12  
 Layer No.: \_\_\_\_\_

Material: Sheetrock / Joint compound

Analyst Description of Material: White chalky/brown fibrous/white shiny chalky

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
CHRYBOTILE	<1	Cellulose	15	Bulk/Binder 84.9
<b>**Asbestos in joint compound only - 2%</b>				

Sample No.: 13  
 Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Fibrous glass	20	Bulk/Binder 80

Sample No.: 14  
 Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Fibrous glass	20	Bulk/Binder 80

Sample No.: 15  
 Layer No.: \_\_\_\_\_

Material: Roof shingle

Analyst Description of Material: Black fibrous tar / rocks

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
NONE DETECTED		Fibrous glass	20	Bulk/Binder 80

Sample No.: \_\_\_\_\_  
 Layer No.: \_\_\_\_\_

Material: \_\_\_\_\_

Analyst Description of Material: \_\_\_\_\_

<u>Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Asbestos Fiber Type</u>	<u>Percentage</u>	<u>Non-Fibrous Percentage</u>
				Bulk/Binder

Analyst: T. Van

Laboratory Director: **Tami Van**