




MEMORANDUM

Missouri Department of Transportation Construction and Materials Central Laboratory

TO: Allen Lane-SL/gs

COPY:

FROM: Diane Roegge 
Environmental Chemist

DATE: May 31, 2013, 2013

SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route 141
Job No. N/A
St Louis District Office Boiler & Traffic Management Center Boiler Project
St Louis County

We are providing you with the results of the requested inspection on the above referenced property. The inspection report contains an asbestos and a heavy metals survey, unless otherwise requested. The asbestos inspection included sample collection of suspect asbestos-containing material and National Voluntary Laboratory Accreditation Program (NVLAP) accredited testing to confirm the presence of asbestos. This asbestos and heavy metal paint report includes four different report forms. Form T746 lists all of the samples taken during the asbestos inspection. Form T747 shows only those samples that tested positive for Category I nonfriable asbestos-containing materials that may remain in the structure during demolition, if kept adequately wet to avoid visible air emissions. Form T748 shows only those samples that tested positive for asbestos and require removal prior to demolition. Form C760 lists all paint samples taken during the heavy metal paint survey and their metal content.

In accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP), as well as city and county asbestos abatement regulations - Registration, Notification, and Performance Requirements, regulated asbestos-containing material (RACM) namely, Friable and Category II nonfriable, have a high probability of becoming friable under normal demolition forces. Practices and procedures for removal prior to demolition, disposal, and clearances should be in accordance with referenced regulations. Missouri Department of Transportation policy is to perform asbestos abatements in accordance with NESHAP.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced property. We are providing you with the results of this survey. This survey includes locating painted concrete, block and/or brick surfaces, sampling/testing the painted surface(s) to determine if hazardous heavy metals are present. Non-hazardous painted concrete, blocks, or bricks may be used as clean fill materials, if properly

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handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling behind walls, above ceilings, beneath floors, etc., it is possible that potentially hidden asbestos-containing materials may exist within the structure. To our knowledge, we have located all suspect asbestos-containing and all painted concrete, block and brick surfaces. If suspect asbestos-containing materials or if painted concrete, block and/or brick surfaces are observed in addition to those reflected in this inspection report, then please advise us immediately so that we may schedule a follow-up inspection.

Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/dr

[http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared
documents/asbestos/districts/st louis \(sl\)/misc/dr1305311.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared/documents/asbestos/districts/st%20louis%20(sl)/misc/dr1305311.docx)

Attachments

Asbestos Survey Report All Suspect ACM

Frank Reichart and Diane Koege
7118122712MOIR11239, F.R.
7118122712MOIR7165, D.R.
1590 Woodlake Drive, Chesterfield 63017
3-Story Block/Brick Commercial Office Building

NOTE: This report is limited to only the boiler and piping as requested. It does not include any other portion of this building or any other buildings or structures at this site.

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS

Asbestos Survey Report

Nonfriable Asbestos-Containing Materials

(Abatement not required if not made friable during demolition.)

ROUTE:	141
MODOT JOB NO.:	N/A
DISTRICT:	SL
COUNTY:	St Louis
DATE OF TESTS:	May 31, 2013
PARCEL NO.:	St Louis District Office Boiler Project

TESTED BY:	Frank Reichart and Diane Roegege
CERTIFICATION #:	7118122712MOIR11239, F.R.
CERTIFICATION #:	7118122712MOIR7165, D.R.
SITE ADDRESS:	1590 Woodlake Drive, Chesterfield 63017
TYPE(S) OF STRUCTURE(S):	3-Story Block/Brick Commercial Office Building

[illegible]

All necessary work to handle this material is the contractor's responsibility.

I NF = Category I Nonfriable

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS

Asbestos Survey Report

All materials requiring removal or special handling.

ROUTE:
MODOT JOB NO.:
DISTRICT:
COUNTY:
DATE OF TESTS:
PARCEL NO.:

TESTED BY:
CERTIFICATION #:
CERTIFICATION #:
SITE ADDRESS:
TYPE(S) OF STRUCTURE(S):

[illegible]

**MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
1617 Missouri Blvd, Jefferson City, MO 65101**

Tested For: Allen Lane-gs Project #: Boiler Parcel: Dist. Office
1590 Woodlake Dr Route: 141 County: St. Louis
Chesterfield, MO 63017
Sampled 05/28/13 Received 05/31/13 Completed 05/31/13 Reported 05/31/13

TEST REPORT OF BULK SAMPLE ANALYSIS FOR ASBESTOS

Sample ID:	13MD1R120			
Material Type	Insulation			
Appearance (Color/Texture)	Tan/Fibrous			
Homogeneous?	X Yes No	Yes No	Yes No	Yes No
If No, Sub-sample #	N/A			
Layers Present?	Yes X No	Yes No	Yes No	Yes No
If Yes, Layer #	N/A			
ASBESTOS DETECTED?	Yes X No	Yes No	Yes No	Yes No
If Yes, Type and Percent				
Chrysotile				
Amosite				
Crocidolite				
Fibrous Anthophyllite				
Fibrous Actinolite				
Fibrous Tremolite				
TOTAL % ASBESTOS	X			
OTHER FIBERS DETECTED?	X Yes No	Yes No	Yes No	Yes No
If Yes, Type and Percent				
Glass	98-99			
Cellulose				
Synthetic				
Other (specify, if known)				
TOTAL % OTHER FIBERS	98-99			
NONFIBROUS MATRIX?	X Yes No	Yes No	Yes No	Yes No
If Yes, Type and Percent				
Binder				
Calcite				
Gypsum				
Granular Materials				
Other (specify, if known)	1-2			
TOTAL % NONFIBROUS	1-2			

REMARKS: (deviations/departures from test method)

Quantification is based on a visual determination of the relative volume of bulk sample components unless otherwise noted. The results are valid only for the item tested. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. Sampling Procedure used: MoDOT PLM QAM Section 8.1 Test Method used: EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples (EPA-600/M4-82-020 Dec. 1982). No part of this report may be reproduced except in full with the written permission of MoDOT Chemical Laboratory.


Environmental Chemist

NVLAP LAB CODE 200544-0

Chemical Laboratory Director
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**MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
1617 Missouri Blvd, Jefferson City, MO 65101**

Tested For: Allen Lane-gs Project #: Boiler Parcel: Traf. Mgmt. Ctr.
1590 Woodlake Dr. Route: 141 County: St. Louis
Chesterfield, MO
 Sampled 05/28/13 Received 05/31/13 Completed 05/31/13 Reported 05/31/13

TEST REPORT OF BULK SAMPLE ANALYSIS FOR ASBESTOS

Sample ID:	13MD1R121	13MD1R121	13MD1R122	13MD1R123*
Material Type	Insulation	Insulation	Insulation	Paint
Appearance (Color/Texture)	White/Shiny	Yellow/Fluff	Pale Yellow/Fluff	Lt Gray/SI Soft
Homogeneous?	X Yes No	X Yes No	X Yes No	X Yes No
If No, Sub-sample #	N/A	N/A	N/A	N/A
Layers Present?	X Yes No	X Yes No	Yes X No	Yes X No
If Yes, Layer #	Paper	Insulation	N/A	N/A
ASBESTOS DETECTED?	Yes X No	Yes X No	Yes X No	Yes X No
If Yes, Type and Percent				
Chrysotile				
Amosite				
Crocidolite				
Fibrous Anthophyllite				
Fibrous Actinolite				
Fibrous Tremolite				
TOTAL % ASBESTOS	0	0	0	0
OTHER FIBERS DETECTED?	X Yes No	X Yes No	X Yes No	Yes X No
If Yes, Type and Percent				
Glass		98-99	98-99	
Cellulose	50-60			
Synthetic				
Other (specify, if known)				
TOTAL % OTHER FIBERS	50-60	98-99	98-99	0
NONFIBROUS MATRIX?	X Yes No	X Yes No	X Yes No	X Yes No
If Yes, Type and Percent				
Binder				
Calcite				
Gypsum				
Granular Materials				
Other (specify, if known)	40-50 (Foil)	1-2	1-2	100 (TiO2)
TOTAL % NONFIBROUS	40-50	1-2	1-2	100

REMARKS: (deviations/departures from test method and/or sampling procedure)

*Sample was ashed.

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