MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: Mary Rackers-CD/rw

COPY:

FROM: Diane Roegge
Environmental Chemist

DATE: June 30, 2016

SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route US 54
Job No. N/A
Parcel CD-0654 (Camdenton RE Office)
Camden 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

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/central (cd)/misc/dr1606303.docx
Attachments

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
All Suspect ACM

ROUTE:	US 54	**SURVEYED BY:**	Frank Reichart and Diane Roegge
MODOT JOB NO.:	N/A	**CERTIFICATION #:**	7118110315MOIR11239, F.R. 7118110315MOIR7165, D.R.
DISTRICT:	CD	**SITE ADDRESS:**	93 Morgan Street, Camdenton
COUNTY:	Camden	**TYPE(S) OF STRUCTURE(S):**	Metal-Clad Metal-Frame Office Building on Concrete Pad with Metal-Clad Metal-Frame Addition on Concrete Pad with 2-Bay Attached Garage and Metal-Clad Pole-Frame Shed
DATE OF SURVEY:	June 15, 2016		
PARCEL NO.:	CD-0654 (Camdenton RE Office)		

Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
	Office Building			
16MD1R 466	Floor Tile (12"x 12")	Floors, Over Concrete	NAFD	
16MD1R 467	Mastic, 12"x 12" Floor Tile	Floors, Over Concrete	I NF	1,740 Sq. Ft.
16MD1R 468	Adhesive, Carpeting	Floors, Over Concrete	N-ACM	
16MD1R 469	Adhesive, Baseboard	Walls, Bathrooms (Removed in Men's)	N-ACM	
16MD1R 470	Ceiling Tile 2'x 2' (Armstrong 949)	Ceilings, Throughout	N-ACM	
16MD1R 471	Ceiling Tile 2'x 2' Small Wormy Holy	Ceilings, Throughout	N-ACM	
16MD1R 472	Ceiling Tile 2'x 2' Large Random	Ceilings, Throughout	N-ACM	
16MD1R 473	Surfacing Material	Walls, Conference Room	N-ACM	
16MD1R 474	Sheetrock, Joint/Tape/Mud	Walls	N-ACM	
16MD1R 475	Sheetrock, Joint/Tape/Mud	Walls	N-ACM	
16MD1R 476	Sheetrock, Joint/Tape/Mud	Walls	N-ACM	
16MD1R 477	Insulation	Above Ceiling Tile, Rigid Ductwork	N-ACM	
16MD1R 478	Insulation	Above Ceiling Tile, Flexible Ductwork	N-ACM	
16MD1R 479	Insulation (Pink)	Walls and Above Ceiling Tile	N-ACM	
16MD1R 480	Insulation (Yellow)	Above Ceiling Tile	N-ACM	
16MD1R 481	Insulation	Along Roofline and Exterior Walls	N-ACM	
16MD1R 482	Insulation	Along Roofline and Exterior Walls, Garage	N-ACM	
	Shed			
	No samples taken. No suspect material located.			
	NOTE: Non-destructive means were used to survey and sample this property. Additional suspect material may be present hidden underneath walls and ceilings.			

N-ACM = Non-Asbestos Containing Material I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable
NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure

Form T747
Rev. 08/2012

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
Nonfriable Asbestos-Containing Materials
(Abatement not required if not made friable during demolition.)

ROUTE: US 54
MODOT JOB NO.: N/A
DISTRICT: CD
COUNTY: Camden
DATE OF TESTS: June 28-29, 2016
PARCEL NO.: CD-0654 (Camdenton RE Office)

TESTED BY: Frank Reichart and Diane Roegge
CERTIFICATION #: 7118110315MOIR11239, F.R. 7118110315MOIR7165, D.R.
SITE ADDRESS: 93 Morgan Street, Camdenton
TYPE(S) OF STRUCTURE(S): Metal-Clad Metal-Frame Office Building on Concrete Pad with Metal-Clad Metal-Frame Addition on Concrete Pad with 2-Bay Attached Garage and Metal-Clad Pole-Frame Shed

Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
	Office Building					
		None Located	I NF			
	Shed					
		None Located	I NF			

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

I NF = Category I Nonfriable

Form T748
Rev. 08/2012

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
All materials requiring removal or special handling.

ROUTE:	US 54	**TESTED BY:**	Frank Reichart and Diane Roegge
MODOT JOB NO.:	N/A	**CERTIFICATION #:**	7118110315MOIR11239, F.R. 7118110315MOIR7165, D.R.
DISTRICT:	CD	**SITE ADDRESS:**	93 Morgan Street, Camdenton
COUNTY:	Camden	**TYPE(S) OF STRUCTURE(S):**	Metal-Clad Metal-Frame Office Building on Concrete Pad with Metal-Clad Metal-Frame Addition on Concrete Pad with 2-Bay Attached Garage and Metal-Clad Pole-Frame Shed
DATE OF TESTS:	June 28-29, 2016		
PARCEL NO.:	CD-0654 (Camdenton RE Office)		

Bid Item No.	Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
		Office Building					
202-40.98	16MD1R 466	Floor Tile (12"x 12")	Floors, Over Concrete	NAFD	1,740 Sq. Ft.		
	16MD1R 467	Mastic, 12"x 12" Floor Tile	Floors, Over Concrete	I NF		Chrysotile	3-5
			None Located	II NF			
			None Located	F			
		Shed					
			None Located	F			
			None Located	II NF			

I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable * = Tested By Point Count Procedure

Form C760
Rev. 08/2012

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE: US 54
MODOT JOB NO.: N/A
DISTRICT: CD
COUNTY: Camden
SURVEYED BY: Frank Reichart
DATE OF SURVEY: June 15, 2016

TESTED BY: N/A
DATE OF TESTS: N/A
PARCEL NO.: CD-0654 (Camdenton RE Office)
SITE ADDRESS: 93 Morgan Street, Camdenton
TYPE(S) OF STRUCTURE(S): Metal-Clad Metal-Frame Office Building on Concrete Pad with Metal-Clad Metal-Frame Addition on Concrete Pad with 2-Bay Attached Garage and Metal-Clad Pole-Frame Shed

Sample ID	Color/Location of Material/Substrate	Metals (ppm)							
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag
	Office Building								
	No samples taken. No painted surfaces located.								
	Shed								
	No samples taken. No painted surfaces located.								

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471