



**MEMORANDUM**  
**Missouri Department of Transportation**  
**Construction and Materials**  
**Central Laboratory**

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**TO:** Randy Potts-CD/de

**COPY:**

**FROM:** Frank Reichart   
Environmental Chemist

**DATE:** January 21, 2015

**SUBJECT:** Materials  
Asbestos Inspection & Heavy Metal Paint Survey  
Route M  
Job No. WGPHTW01  
Parcel Flat Radio Tower  
Phelps 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

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Attachments











# MEMORANDUM

## Missouri Department of Transportation Construction and Materials Central Laboratory

**TO:** Randy Potts-CD/de

**CC:**

**FROM:** Frank Reichart   
Environmental Chemist, Lead License #110506-300003364

**DATE:** January 16, 2015

**SUBJECT:** Materials  
Job No. WGPHTW01  
M/Phelps  
Flat Radio Tower

On January 16, 2015, a paint screening for regulated heavy metals was performed on the metal radio tower. The following results were obtained:

	<b>15MD1R005</b>
Arsenic (As)	46,261 ppm** (4.6%)
Chromium (Cr)	266,635 ppm (26.7%)
Lead (Pb)	300,062 ppm (30.0%)
Cadmium (Cd)	442 ppm
Selenium (Se)	LOD*
Barium (Ba)	7,530 ppm
Mercury (Hg)	LOD
Silver (Ag)	LOD

\*LOD = below the detection limit of the instrument

\*\*ppm = parts per million

The existing paint system on the metal radio tower is lead-based paint (LBP). Additionally be advised that high levels of chromium, another regulated heavy metal, will also be found on this radio tower.

Should any further screenings be required, please contact Todd Bennett, Chemical Laboratory Director, at (573) 751-1045. Should you have any questions regarding the screenings, feel free to call me at (573) 526-4359.

fr/dr

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