



MEMORANDUM

Missouri Department of Transportation Construction and Materials Central Laboratory

TO: John Tyler-SL/rw

COPY:

FROM: Frank Reichart 
Environmental Chemist

DATE: August 18, 2011

SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route N/A
Job No. N/A
Parcel E6-1183 Page MT Lot
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

TO: Tyler-SL/rw
Page 2
August 18, 2011

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

J:\barred\asbestos\District - SL (St Louis)\Misc\fr1108181.docx

Attachments

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

ROUTE: N/A
MODOT JOB NO.: N/A
DISTRICT: St. Louis
COUNTY: St. Louis
DATE OF SURVEY: August 11-12, 2011
PARCEL NO.: Page Maintenance Lot E6-1183

SURVEYED BY: Frank Reichart 
CERTIFICATION #: 7112010411MOIR11239
SITE ADDRESS: 11300 Iackland Rd., Maryland Heights, MO 63146
TYPE(S) OF STRUCTURE(S): 8-Bay Block Maintenance Bldg. on Concrete Slab, 5-Bay Salt Shed with Attached Brine Shed, Small Wood Frame Storage Shed and Covered Metal Frame Spreader Rack

Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
	Maintenance Building			
11MFJR 618	Window Caulk	1-5 x 5 1/4, Northeast Corner	N-ACM	
11MFJR 619	Caulk on Block	18-Vertical Seams, East Side	II NF	297 Lin. Ft.
11MFJR 620	Grout/Mortar	Floor, Office and Restrooms	N-ACM	
11MFJR 621	Ceiling Tile	Floor, Office and Restrooms and Break Room	N-ACM	
11MFJR 622	Sheetrock, Joint/Tape/Mud	Walls, Office, Restroom and Break Room	N-ACM	
11MFJR 623	Insulation	Above Ceiling Tile	N-ACM	
11MFJR 624	Insulation	Roof Line	N-ACM	
	Salt Shed and Brine Shed			
11MFJR 625	Asphalt Roofing Shingles	Roof, 1 st Layer, Brine Shed	N-ACM	
11MFJR 626	Asphalt Felt Material	Roof, 2 nd Layer, Brine Shed	N-ACM	
11MFJR 627	Insulation	Walls and Ceiling, Brine Shed	N-ACM	
	Small Storage Shed			
11MFJR 628	Asphalt Roofing Shingles	Roof, 1 st Layer	N-ACM	
11MFJR 629	Asphalt Felt Material	Roof, 2 nd Layer	N-ACM	
11MFJR 630	Asphalt Fiberboard	Walls, Under Siding	N-ACM	
11MFJR 631	Sheetrock, Joint/Tape/Mud	Walls and Ceiling	N-ACM	
11MFJR 632	Insulation	Walls and Ceiling	N-ACM	
	Spreader Rack			
	No samples taken. No suspect ACM located.			

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 J:\BARRED\ASBESTOS\DISTRICT - SL (ST LOUIS)\MISC\PAGE MT LOT E6-1183.DOC

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

ROUTE: N/A
 MODOT JOB NO.: N/A
 DISTRICT: St. Louis
 COUNTY: St. Louis
 SURVEYED BY: Frank Reichart
 DATE OF SURVEY: August 11-12, 2011

TESTED BY: Frank Reichart *FR*
 DATE OF TESTS: August 11-12, 2011
 PARCEL NO.: Page Maintenance Lot E6-1183
 SITE ADDRESS: 11300 Lackland Rd., Maryland Heights, MO 63146
 TYPE(S) OF STRUCTURE(S): 8-Bay Block Maintenance Bldg. on Concrete Slab, 5-Bay Salt Shed with Attached Brine Shed, Small Wood Frame Storage Shed and Covered Metal Frame Spreader Rack

Sample ID	Color/Location of Material/Substrate	Metals (ppm)									
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag		
11MFJR 633	Maintenance Building Brown/Exterior Wall/Concrete	<28	<246	290	<48	<4	949	<16	<37		
11MFJR 634	Brown/Exterior Wall/Block	78	<233	867	<47	<5	2,971	<25	<36		
11MFJR 635	Tan/Exterior Wall/Concrete	<46	802	783	<51	<5	1,245	<23	<39		
11MFJR 636	Tan/Exterior Wall/Block	149	278	1,250	<45	<6	2,374	<24	<35		
11MFJR 637	Beige/Exterior Wall/Block	304	1,423	1,071	<46	<5	2,021	<24	<36		
11MFJR 638	Tan/Exterior Wall/Brick	<10	<155	13	<42	<3	<712	<12	<32		
11MFJR 639	Lt. Green/Exterior Wall/Concrete	<10	280	21	<43	<3	<950	<16	<33		
11MFJR 640	Lt. Gray/Interior Wall/Concrete	<28	<270	307	<50	<4	<2,082	<20	<39		
11MFJR 641	Lt. Gray/Interior Wall/Block	<37	287	597	<48	<5	<1,899	<29	<37		
11MFJR 642	White/Interior Wall/Block	<12	<239	37	<44	<3	1,958	<15	<34		
11MFJR 643	White/Interior Wall/Concrete	<15	<262	59	<49	<3	<2,014	<15	<37		
11MFJR 644	Red/Interior Floor/Concrete	18	150	37	<43	<4	<351	<13	<33		
11MFJR 645	Red/Interior Wall/Concrete	<32	<157	369	<50	<4	<442	<23	<38		
11MFJR 646	Red/Interior Wall/Block	<14	<143	56	<45	<4	1,792	<16	<34		
11MFJR 647	Brown/Interior Wall/Block	<14	273	65	<45	<3	<775	<13	<34		
11MFJR 648	Cream/Interior Wall/Block	<13	<270	44	<45	<3	5,790	<14	<35		

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

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

ROUTE: N/A
 MODOT JOB NO.: N/A
 DISTRICT: St. Louis
 COUNTY: St. Louis
 SURVEYED BY: Frank Reichart
 DATE OF SURVEY: August 11-12, 2011

TESTED BY: Frank Reichart
 DATE OF TESTS: August 11-12, 2011
 PARCEL NO.: Page Maintenance Lot E6-1183
 SITE ADDRESS: 11300 Lackland Rd, Maryland Heights, MO 63146
 TYPE(S) OF STRUCTURE(S): 8-Bay Block Maintenance Bldg. on Concrete Slab, 5-Bay Salt Shed with Attached Brine Shed, Small Wood Frame Storage Shed and Covered Metal Frame Spreader Rack

Sample ID	Color/Location of Material/Substrate	Metals (ppm)									
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag		
11MFJR 649	Maintenance Building (con't.) Cream/Interior Wall/Concrete	<18	<271	104	<47	<4	6,053	<15	<36		
11MFJR 650	Gray/Interior Wall/Block	15	162	58	<42	<3	1,901	<11	<33		
11MFJR 651	Yellow/Interior Floor/Concrete	1,494	8,255	13,510	<51	<16	<519	<55	<38		
11MFJR 652	Salt Shed and Brine Shed Tan/Exterior Foundation Wall/Concrete	<19	<183	137	<44	<3	1,729	<14	<34		
11MFJR 653	Light Green/Exterior Foundation Wall/Concrete	15	<203	22	<44	<3	2,231	<11	<34		
11MFJR 654	Beige/Exterior Foundation Wall/Concrete	<15	243	94	<41	<3	<954	<12	<31		
	Small Storage Shed										
	No samples taken. No painted surfaces located.										
	Spreader Rack										
	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