

Asbestos Inspection Report

Clinical Center Michigan State University



**Prepared For:
Michigan State University**

**February 2008
Project No. G07875CC**



Fishbeck, Thompson, Carr & Huber
engineers • scientists • architects • constructors

ASBESTOS INSPECTION REPORT
CLINICAL CENTER
MICHIGAN STATE UNIVERSITY

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TABLE OF CONTENTS

INTRODUCTION.....	1
CERTIFICATION.....	1
INSPECTION PROCEDURES AND SAMPLING METHODOLOGY.....	2
RESULTS.....	2

LIST OF FIGURES

Figure 1	Clinical Center Building 200N – Basement
Figure 2	Clinical Center Building 200N – First Floor
Figure 3	Clinical Center Building 200N – Mechanical Deck 1
Figure 4	Clinical Center Building 200N – Second Floor
Figure 5	Clinical Center Building 200N – Mechanical Deck 2
Figure 6	Clinical Center Building 200N – Roof
Figure 7	Clinical Center Building 200S – Basement
Figure 8	Clinical Center Building 200S – First Floor
Figure 9	Clinical Center Building 200S – Mechanical Deck 1
Figure 10	Clinical Center Building 200S – Second Floor
Figure 11	Clinical Center Building 200S – Mechanical Deck 2
Figure 12	Clinical Center Building 200S – Roof
Figure 13	Clinical Center Building 202 – Basement
Figure 14	Clinical Center Building 202 – First Floor
Figure 15	Clinical Center Building 202 – Mechanical Deck 1
Figure 16	Clinical Center Building 202 – Second Floor
Figure 17	Clinical Center Building 202 – Mechanical Deck 2
Figure 18	Clinical Center Building 202 – Roof
Figure 19	Clinical Center Building 201 – First Floor
Figure 20	Clinical Center Building 201 – Mechanical Deck 1
Figure 21	Clinical Center Building 201 – Second Floor
Figure 22	Clinical Center Building 201 – Mechanical Deck 2
Figure 23	Clinical Center Building 201 – Third Floor
Figure 24	Clinical Center Building 201 – Mechanical Deck 3
Figure 25	Clinical Center Building 201 – Fourth Floor
Figure 26	Clinical Center Building 201 – Mechanical Deck 4
Figure 27	Clinical Center Building 201 – Roof

LIST OF TABLES

Table 1	Inaccessible Rooms
Table 2	Description of Homogeneous Materials
Table 3	Bulk Sample Location Log
Table 4	Summary of Asbestos-Containing Homogeneous Materials

TABLE OF CONTENTS

LIST OF APPENDICES

- Appendix 1 Photograph Log
- Appendix 2 Analytical Reports
- Appendix 3 Room-By-Room Building Inspection Summaries

LIST OF ABBREVIATIONS/ACRONYMS

ACM	asbestos-containing material
CFR	Code of Federal Regulations
FTC&H	Fishbeck, Thompson, Carr & Huber, Inc.
MSU	Michigan State University

INTRODUCTION

FTC&H was retained by MSU to conduct an inspection of the Clinical Center for ACMs. Based on the information that was provided to FTC&H, the facility was constructed in 1976. The Clinical Center consists of four buildings: 200N, 200S, 201, and 202. Buildings 200N, 200S, and 202 have two floors and a basement, building 201 has four floors and a basement. Each building has a mechanical deck above the occupied space. The Clinical Center is a total of 452,832 square feet.

The inspection was conducted according to the protocol described in 40 CFR 763 Subpart E with the following exceptions:

- Damage assessments were limited to significantly damaged accessible materials. No significantly damaged materials were observed.
- Sample locations for surfacing materials (e.g., plaster, drywall joint compound, etc.) were limited to discrete accessible locations where damage could be minimized.

The inspection did not include building materials on the exterior of the building, destructive sampling, inaccessible equipment, fiberglass, steel, concrete/mortar/block, ceramic tile, or inaccessible areas/materials.

The following materials were assumed to contain asbestos:

- Fire doors

The rooms listed in Table 1 were inaccessible at the time of the inspection.

The inspection was conducted from December 3–11, 2007, in accordance with the FTC&H proposal dated August 10, 2007.

CERTIFICATION

The building inspection was lead by a State of Michigan accredited Asbestos Building Inspector, Mr. Christian T. Decker (Accreditation No. A26683). All samples were sent to an independent laboratory for analyses. Laboratories used for the analyses are identified in Appendix 2, as shown on the analytical reports.

INSPECTION PROCEDURES AND SAMPLING METHODOLOGY

The inspection was conducted in a room-by-room fashion. According to the standard, all materials were considered suspect ACMs for sampling purposes. For the purposes of this report, the terms homogeneous area and homogeneous material are used interchangeably. Homogeneous material numbers were arbitrarily selected depending on when they were first identified. The number of samples collected from each homogeneous material was determined depending on the type of material, and at least one sample was collected from miscellaneous materials. Sample locations were randomly selected by the inspector at the time of the inspection. Sample locations are shown on Figures 1 through 27. Floor plans for the basement of building 201 were unavailable.

RESULTS

A total of 49 unique homogeneous materials were identified during the inspection of Clinical Center, resulting in 113 samples collected and 111 sample analyses (including layers). As a result, 1 homogeneous material was assumed to contain asbestos, and 5 of the homogeneous materials tested were found to be asbestos containing (having a concentration greater than 1% by weight).

The results of the building inspection are provided in Tables 2 through 4, and Appendix 3. Table 2 identifies the homogeneous materials and their corresponding identification number. Table 3 identifies each distinct sample number and the sample locations. Summaries of the asbestos-containing and non asbestos-containing homogeneous materials identified in each room (functional space) and approximate quantities are presented in Appendix 3. Functional spaces which were identical in size and homogeneous materials were grouped together with the total quantity of each homogeneous material reported. Table 4 summarizes the assumed or confirmed ACMs with an approximate quantity. Appendix 1 contains the photograph log.

Table 2 - Description of Homogeneous Materials

Michigan State University - Clinical Center

Inspection Date: December 3, 2007 through December 11, 2007

HA Number	Material Description	Material Type	Units	ACM
1	Spray-on fire proofing on structural steel	SM	s.f.	N
2	Mudded fittings on fiberglass lines >12"	TSI	ea.	N
3	Mudded fittings on fiberglass lines <12"	TSI	ea.	N
4	Fire doors	MM	ea.	Assumed
5	Tank insulation	TSI	s.f.	N
6	Old brine tank lining	MM	s.f.	N
7	Drywall with plaster skim coat	SM	s.f.	Y
8	2' x 2' Ceiling tile - semi smooth texture	MM	s.f.	N
10	4" Cove base - grey/brown	MM	l.f.	N
11	4" Cove base - white	MM	l.f.	N
12	2' x 4' Ceiling tile - pinholes and random fissures	MM	s.f.	N
13	2' x 4' Ceiling tile - pinholes and linear fissures	MM	s.f.	N
14	12" x 12" Vinyl tile - white with brown speckles - tile	MM	s.f.	N
	12" x 12" Vinyl tile - white with brown speckles - black mastic	MM	s.f.	Y
15	2' x 2' Ceiling tile - pinhole and fissures	MM	s.f.	N
16	4" Cove base - dark grey	MM	l.f.	N
17	12" x 12" Vinyl tile - beige with light brown speckles	MM	s.f.	N
18	12" x 12" Vinyl tile - grey with white and brown streaks - tile	MM	s.f.	Y
	12" x 12" Vinyl tile - grey with white and brown streaks - black mastic	MM	s.f.	N
19	Expansion gasket	MM	s.f.	N
20	Spray-on fire proofing on structural steel and deck	SM	s.f.	N
21	Duct insulation - black	MM	s.f.	N
22	Drywall with mesh and grey skim coat	SM	s.f.	N
23	12" x 12" Vinyl tile - aqua blue speckled	MM	s.f.	N
24	12" x 12" Vinyl tile - salmon speckled	MM	s.f.	N
25	12" x 12" Vinyl tile - light brown speckled	MM	s.f.	N
26	18" x 18" Vinyl tile - grey, white, and black marbled	MM	s.f.	N
27	4" Cove base - tan	MM	l.f.	N
28	Seamless floor covering - light beige with white	MM	s.f.	N
29	2' x 2' Ceiling tile - random sized pinholes with fissures	MM	s.f.	N
30	12" x 12" Vinyl tile - blue speckled	MM	s.f.	N
31	12" x 12" Vinyl tile - light pink with blue speckles	MM	s.f.	N
32	4" Cove base - blue	MM	l.f.	N
33	18" x 18" Vinyl tile - pink, white and black marbled	MM	s.f.	N
34	18" x 18" Vinyl tile - green, light green, and black marbled	MM	s.f.	N
35	12" x 12" Vinyl tile - light blue speckled - tile	MM	s.f.	N
	12" x 12" Vinyl tile - light blue speckled - black mastic	MM	s.f.	Y
36	4" Cove base - black	MM	l.f.	N
37	Seamless floor covering - tan with black, and white marbling	MM	s.f.	N
38	2' x 2' Ceiling tile - smooth	MM	s.f.	N
39	Seamless floor covering - grey with black, and white flecks	MM	s.f.	N
40	Seamless floor covering - off white with grey	MM	s.f.	N
41	12"x12" Vinyl tile - off white with black, and purple streaks	MM	s.f.	N
42	4" Cove base - brown	MM	l.f.	N
43	12" x 12" Vinyl tile - Brown with grid texture - black/yellow mastic	MM	s.f.	Y
	12" x 12" Vinyl tile - Brown with grid texture - tile	MM	s.f.	N
	12" x 12" Vinyl tile - Brown with grid texture - black mastic	MM	s.f.	N
44	4" Cove base - green	MM	l.f.	N

Table 2 - Description of Homogeneous Materials

Michigan State University - Clinical Center

Inspection Date: December 3, 2007 through December 11, 2007

HA Number	Material Description	Material Type	Units	ACM
45	Seamless floor covering - red with black and white streaks	MM	s.f.	N
46	4" Cove base - grey/blue	MM	l.f.	N
47	Lab countertops	MM	s.f.	N
48	Troweled on plaster	SM	s.f.	N
49	Caulk boards	MM	s.f.	N
50	4' x 5' Ceiling tile - hard water proof	MM	s.f.	N

Notes:

ACM	Asbestos containing material
MM	Miscellaneous material
SM	Surfacing material
TSI	Thermal system insulation
s.f.	Square feet
l.f.	linear feet
ea	Each
HA	Homogeneous area