

NARRATIVE REPORT

1.0 BUILDING INFORMATION

Stockbridge Hall was originally constructed in 1956; although specific information could not be located, several small renovations are evident.

Stockbridge Hall is a four-story, 53,826 ft² building which primarily serves as dormitory areas for students.

The interior floor finishes included concrete, floor tile, carpet, and terrazo; the interior wall finishes included plaster, brick, gypsum wallboard, concrete, concrete block, and ceramic tile; and the interior ceiling finishes included plaster, concrete, gypsum wallboard, ceramic tile, and ceiling tile. The roofing system is a peaked asphalt shingle roof and the exterior of the structure is brick.

The piping systems were insulated; fiberglass insulation (without hard fittings), mag block insulation (with hard fittings), and millboard insulation (with hard fittings) are located in the building. Steam enters the building via a tunnel into room 5 and domestic water enters in the east pipe chase of room 1. HVAC systems located in the building consisted of steam radiators and steam unit heaters.

2.0 ASBESTOS SURVEY INFORMATION

Stockbridge Hall was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 4" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 4" for methodologies, definitions, and other pertinent supporting information.

LEGEND was granted full access to Stockbridge Hall during the initial walk-through and sampling of the building. During subsequent walk-throughs of the building, for resampling and reporting purposes, LEGEND was granted access to the common areas and to 2-4 dormitory rooms per floor, only.

A total of 138 samples were collected from suspect asbestos-containing materials (ACM) from Stockbridge Hall on May 16, 2007 and an additional 9 samples were collected on March 10, 2008. Laboratory analysis results indicate **28 of these samples tested positive for asbestos.**

2.1 Suspect Materials Identified and Sampled

Wall Texture (3 types)	Hard Plaster- Monocoat
Hard Plaster- Basecoat	Hard Plaster- Skimcoat
Wall Patch Material (3 types)	Ceiling Patch Material
Sheet Vinyl (on dressers)	Sheet Vinyl Adhesive
Ceiling Texture (5 types)	Firestop
Ceiling Tile	Floor Tile (12 types)
Floor Tile Mastic (11 types)	Sink Undercoating
Carpet Mastic	Baseboard Adhesive
Window Caulk (3 types)	Building Seam Caulk
Black Pipe Wrap	Stair Tread (2 types)
Stair Tread Adhesive	Gypsum Wallboard (3 types)

Joint Compound (2 types)	Millboard Pipe Insulation
Hard Fittings on Millboard Insulation	Mag Block Pipe Insulation
Hard Fittings on Mag Block Insulation	Exterior Window Caulk (2 types)
Hard Pack on Fiberglass Insulation (on valve)	Exterior Air Vent Caulk
Hard Pack on Mag Block Insulation (on hangars)	Exterior Building Seam Caulk
Encapsulant on Fiberglass Insulation	Ceramic Tile Adhesive
Flooring Felts (old roofing felts)	Roof Tarpaper
Flashing (old roof flashing)	Asphalt Shingles

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 **Asbestos Containing Materials**

Mastic for 12" Tan Floor Tile with Brown Marks
 12" Mustard Floor Tile with Green Marks and Mastic
 Mastic for 12" Black Floor Tile
 Mastic for 12" White Floor Tile with Multicolored Specks
 Heavy Acoustic Ceiling Texture
 Mastic for 12" Gray Floor Tile with Brown Marks
 12" Tank Floor Tile with Multicolored Specks and Mastic
 12" Beige Floor Tile with Brown/Gray Streaks and Mastic
 Millboard Pipe Insulation
 Mag Block Pipe Insulation
 Hard Fittings on Mag Block Pipe Insulation
 Hard Pack on Mag Block Insulation (on hangars)
 Hard Fittings on Millboard Insulation
 Flashing (old roof flashing)

The ACM Locations/ Friable Materials Assessments Table includes ACM locations data.

2.3 **Cost Estimates**

Legend Technical Services Inc. estimates abatement costs (removal & disposal) of ACM for Stockbridge Hall as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Floor Tile and/or Mastic	36,449 ft ²	\$4.00/ft ²	\$145,796.00
Asbestos Ceiling Texture	2,626 ft ²	\$7.50/ft ²	\$19,695.00
Asbestos Millboard Pipe Insulation	553 ft	\$25.00/ft	\$13,825.00
Asbestos Hard Fittings on Millboard Insulation	12 ea	\$25.00/ea	\$300.00
Asbestos Mag Block Pipe Insulation	1,106 ft	\$25.00/ft	\$27,650.00
Asbestos Hard Fittings on Mag Block Insulation	169 ea	\$25.00/ea	\$4,225.00
Asbestos Flashing (old roof flashing)	1 ea	\$150.00	\$150.00
Total Estimated Abatement Costs:			\$211,641.00

2.4 Survey Notes

In Stockbridge Hall, mag block pipe insulation (with hard fittings) was used on steam pipes and millboard pipe insulation (with hard fittings) was used on domestic water pipes. LEGEND was able to visually quantify these insulations throughout the basement. In addition, on May 16, 2007 during LEGEND's initial walkthrough of the building, a small portion of the ceiling in the north stairway on 2nd floor had been removed by NDSU maintenance personnel; the ceiling was repaired prior to LEGEND's next walkthrough. Through this hole in the ceiling, LEGEND identified mag block pipe insulation with hard fittings and collected a sample of the hard fittings (sample #133); the sample tested positive for asbestos. Throughout floors 1-3 inaccessible ceilings and pipe chases prevented LEGEND from quantifying additional pipe insulations and hard fittings. LEGEND recommends assuming additional pipe insulations and hard fittings will be discovered during renovation or demolition activities on the water pipes supplying the custodial rooms and bathrooms and on steam pipes supplying the radiators in the stairways. LEGEND recommends assuming an additional 150 feet of millboard pipe insulation with 50-100 hard fittings on each of the 1st, 2nd, and 3rd floors and an additional 75 feet of mag block pipe insulation with 25-50 hard fittings on each of the 1st, 2nd, and 3rd floors..

During renovations, a new peaked asphalt shingled roof was added over the building. Portions of the old flat rubber membrane roof remain in the attic spaces that were created above the building during the addition of the peaked asphalt shingled roof. LEGEND sampled the old flat rubber membrane roof system and the new peaked asphalt shingled roof system. The flashing (old roof flashing) in the attic tested positive for asbestos; the flashing is around the attic access hatch.

LEGEND identified and collected a sample of hard pack on mag block insulation (on hangars); the sample tested positive for asbestos (sample #132). The hangars are spaced approximately every 10 feet on all pipes with mag block pipe insulation present. LEGEND did not quantify the hangars; the hard pack on mag block can only be abated by abating the mag block pipe insulation and should therefore have no individual costs.

LEGEND identified and collected a sample of hard pack on fiberglass insulation around several valves in the north end of room 5; the sample tested negative for asbestos (sample #131).

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
---------------	---------------	------------------	-----------	-----------------------	---------------------	--------------------	------------------------------	-------

Tunnels

Mag Block Pipe Insulation	15% Chrysotile 15% Amosite	871 ft	Friable TSI	Sig. Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	1	The asbestos mag block pipe insulation runs throughout the tunnels on steam lines.
Hard Fittings on Mag Block Insulation	15-50% Chrysotile 0-15% Amosite	132 fittings	Friable TSI	Sig. Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	1	None
Millboard Pipe Insulation	40% Chrysotile	507 ft	Friable TSI	Sig. Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	1	The asbestos millboard pipe insulation runs throughout the tunnels on domestic water lines.

Room 1 (includes east pipe chase - through the door)

Mag Block Pipe Insulation	15% Chrysotile 15% Amosite	45 ft	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	6	The asbestos mag block pipe insulation runs along the north end of the room and in the east closet.
Hard Fittings on Mag Block Insulation	15-50% Chrysotile 0-15% Amosite	9 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	6	None
Millboard Pipe Insulation	40% Chrysotile	20 ft	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	6	The asbestos millboard pipe insulation runs along the north end of the room and in east closet.
Hard Fittings on Millboard Insulation	7% Chrysotile	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	6	None
12" Beige Floor with Brown/Gray Streaks and Mastic	2-10% Chrysotile	331 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 12" beige floor tile and mastic contain asbestos.

12" tile replaced and a portion of the mastic was abated--not certain to what extent

Room 2

Mag Block Pipe Insulation	15% Chrysotile 15% Amosite	100 ft	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/> ■ <input type="checkbox"/> <input type="checkbox"/> ■ <input type="checkbox"/>	6	The asbestos mag block pipe insulation is throughout room 2.
---------------------------	-------------------------------	--------	----------------	------	--------------------------------------	---	---	--

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
---------------	---------------	------------------	-----------	-----------------------	---------------------	--------------------	------------------------------	-------

Hard Fittings on Mag Block Insulation	15-50% Chrysotile 0-15% Amosite	15 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	None
---------------------------------------	------------------------------------	-------------	----------------	------	--------------------------------------	---	---	------

Room 2A

Mag Block Pipe Insulation	15% Chrysotile 15% Amosite	4 ft	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The asbestos mag block pipe insulation is in the southwest corner of the room.
Hard Fittings on Mag Block Insulation	15-50% Chrysotile 0-15% Amosite	2 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	None

Room 4

Mag Block Pipe Insulation	15% Chrysotile 15% Amosite	8 ft	Friable TSI	Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	1	The asbestos mag block pipe insulation runs through the middle of the room.
---------------------------	-------------------------------	------	----------------	---------	--------------------------------------	---	---	---

Room 5

Mastic for 12" Gray Floor Tile with Brown Marks	10% Chrysotile	175 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The mastic for the 12" gray floor tile contains asbestos; the floor tile does not.
---	----------------	---------------------	------------------------------	------	------	------	------	--

12" tile replaced Summer 2007, mastic remains

Room 5A

Mag Block Pipe Insulation	15% Chrysotile 15% Amosite	12 ft	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	6	The asbestos mag block pipe insulation runs along the west wall.
9" Floor Tile and Mastic	Assumed	195 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.

Abated June 2007

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
---------------	---------------	------------------	-----------	-----------------------	---------------------	--------------------	------------------------------	-------

Room 5B

Mag Block Pipe Insulation	15% Chrysotile 15% Amosite	12 ft	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	6	The asbestos mag block pipe insulation runs throughout the room.
Hard Fittings on Mag Block Insulation	15-50% Chrysotile 0-15% Amosite	2 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	6	None
Mastic for 12" Gray Floor Tile with Brown Marks	10% Chrysotile	195 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The mastic for the 12" gray floor tile contains asbestos; the floor tile does not.

Room 5C

Millboard Pipe Insulation	40% Chrysotile	<1 ft	Friable TSI	Sig. Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	1	The asbestos millboard pipe insulation is in the northwest corner of the room; <1 ft in the room on a pipe that passes through the ceiling.
12" Tan Floor Tile with Multicolored Specks and Mastic	2% Chrysotile	1,324 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 12" tan floor tile and mastic contain asbestos.

12" tile replaced Summer 2007, mastic remains

Room 6

Mag Block Pipe Insulation	15% Chrysotile 15% Amosite	22 ft	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The asbestos mag block pipe insulation runs along the north wall.
Hard Fittings on Mag Block Insulation	15-50% Chrysotile 0-15% Amosite	6 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	None
Millboard Pipe Insulation	40% Chrysotile	18 ft	Friable TSI	Sig. Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	1	The asbestos millboard pipe insulation runs along the north wall.
Hard Fittings on Millboard Pipe Insulation	7% Chrysotile	4 fittings	Friable TSI	Sig. Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	1	None

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
---------------	---------------	------------------	-----------	-----------------------	---------------------	--------------------	------------------------------	-------

Hallway 88

Mag Block Pipe Insulation	15% Chrysotile 15% Amosite	32 ft	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The asbestos mag block pipe insulation runs along the north wall.
Hard Fittings on Mag Block Insulation	15-50% Chrysotile 0-15% Amosite	3 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	None
9" Floor Tile and Mastic Abated June 2007	Assumed	245 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet.

Dorm Rooms 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 112, 113, 114, 115, 116, 117, 121, 122, 123, 124, 125, 126, 127, 129, 130, 131, 132, 133, 134, 135, 136, 137, and 138 **Abated June 2012 and May 2013**

9" Floor Tile and Mastic	Assumed	176 ft ² each	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	-----------------------------	------------------------------	------	------	------	------	---

Abated June 2012 and May 2013

Dorm Rooms 111 and 128

9" Floor Tile and Mastic	Assumed	299 ft ² each	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	-----------------------------	------------------------------	------	------	------	------	---

Room 119 **May 2013**

Mastic for 12" White Floor Tile with Multicolored Specks	2% Chrysotile	73 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	Only the mastic for the 12" white floor tile contains asbestos in the bathroom and kitchen.
9" Floor Tile and Mastic	Assumed	201 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are in the north bathroom and under the carpet in the north bedroom.

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
---------------	---------------	------------------	-----------	-----------------------	---------------------	--------------------	-----------------------------	-------

Room 140 May 2013

Heavy Acoustic Ceiling Texture	8% Chrysotile	187 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None
Air Erosion						<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
Vibration						<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
9" Floor Tile and Mastic	Assumed	187 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet.

Room 142

Heavy Acoustic Ceiling Texture	8% Chrysotile	273 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None
Air Erosion						<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
Vibration						<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 142A

Heavy Acoustic Ceiling Texture	8% Chrysotile	331 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None
Air Erosion						<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
Vibration						<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 143 May 2013

12" Mustard Floor Tile with Green Marks and Mastic	2-10% Chrysotile	206 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 12" mustard floor tile and mastic contain asbestos.
Mastic for 12" Black Floor Tile	10% Chrysotile	16 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The mastic for the 12" black floor tile contains asbestos; the floor tile does not.
Black Sink Undercoating	10% Chrysotile	1 sink	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos sink undercoating is along the north wall.

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
Room 144 May 2013								
Heavy Acoustic Ceiling Texture	8% Chrysotile	118 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
9" Floor Tile and Mastic	Assumed	118 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Room 144A								
9" Floor Tile and Mastic	Assumed	40 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
	May 2013							
Room 146								
Heavy Acoustic Ceiling Texture	8% Chrysotile	1,305 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
9" Floor Tile and Mastic	Assumed	1,305 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet.
	May 2013							
Room 147 Abated June 2012								
9" Floor Tile and Mastic	Assumed	40 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos 9" floor tile and mastic are assumed ACMs.
Hallway 188 (including all hallways, entry vestibules, and storage closets by room 147 and 177) South Half up to Office Abated June 2012 rest May 2013								
9" Floor Tile and Mastic	Assumed	3,000 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet in areas. Refer to ACM locations diagrams for exact locations.

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
---------------	---------------	------------------	-----------	-----------------------	---------------------	--------------------	-----------------------------	-------

Mastic for 12" Tan Floor Tile with Brown Marks	10% Chrysotile	53 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The mastic for the 12" tan floor tile contains asbestos; the floor tile does not. They are located in the west main entry.
Heavy Acoustic Ceiling Texture	8% Chrysotile	412 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The asbestos heavy ceiling texture is in a small section of the hallway by room 144A; refer to ACM locations diagrams for exact location.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Dorm Rooms 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, and 245 **Abated June 2016**

9" Floor Tile and Mastic	Assumed	176 ft ² each	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	-----------------------------	------------------------------	------	------	--	------	---

Dorm Rooms 211 and 231 **Abated June 2016**

9" Floor Tile and Mastic	Assumed	299 ft ² each	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	-----------------------------	------------------------------	------	------	--	------	---

Room 246 **Abated June 2016**

9" Floor Tile and Mastic	Assumed	135 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	---------------------	------------------------------	------	------	--	------	---

Room 277 **Abated June 2016**

9" Floor Tile and Mastic	Assumed	105 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	---------------------	------------------------------	------	------	--	------	---

Hallway 288 (including all hallways and storage closets by room 247 and 277) **Abated June 2016**

9" Floor Tile and Mastic	Assumed	2,580 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet in areas. Refer to ACM locations diagrams for exact locations.
-------------------------------------	---------	-----------------------	------------------------------	------	------	--	------	--

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
---------------	---------------	------------------	-----------	-----------------------	---------------------	--------------------	------------------------------	-------

Dorm Rooms 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, and 345 **Abated June 2018**

9" Floor Tile and Mastic	Assumed	176 ft ² each	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	-----------------------------	------------------------------	------	------	--	------	---

Dorm Rooms 311 and 331 **Abated June 2018**

9" Floor Tile and Mastic	Assumed	299 ft ² each	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	-----------------------------	------------------------------	------	------	--	------	---

Room 346 **Abated June 2018**

9" Floor Tile and Mastic	Assumed	135 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	---------------------	------------------------------	------	------	--	------	---

Room 347 **Abated June 2018**

9" Floor Tile and Mastic	Assumed	22 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	--------------------	------------------------------	------	------	--	------	---

Room 377 **Abated June 2018**

9" Floor Tile and Mastic	Assumed	105 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
-------------------------------------	---------	---------------------	------------------------------	------	------	--	------	---

Hallway 388 (including all hallways and storage closets by room 347 and 377) **Abated June 2018**

9" Floor Tile and Mastic	Assumed	2,580 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are under the carpet in areas. Refer to ACM locations diagrams for exact locations.
-------------------------------------	---------	-----------------------	------------------------------	------	------	--	------	--

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
---------------	---------------	------------------	-----------	-----------------------	---------------------	--------------------	-----------------------------	-------

North Stairway (1st-3rd floor) Abated June 2018

9" Floor Tile and Mastic	Assumed	120 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are on each landing under the carpet.
-------------------------------------	---------	---------------------	------------------------------	------	------	--	------	--

North Center Stairway (1st-3rd floor) Abated June 2018

9" Floor Tile and Mastic	Assumed	120 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are on each landing under the carpet.
-------------------------------------	---------	---------------------	------------------------------	------	------	--	------	--

South Center Stairway (Basement-3rd floor)

Millboard Pipe Insulation	40% Chrysotile	7 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The asbestos millboard pipe insulation is in the southeast corner of the stairway at the basement level.
Hard Fittings on Millboard Insulation	7% Chrysotile	4 fittings	Friable TSI	Good	Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	None
9" Floor Tile and Mastic	Assumed	180 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are on each landing under the carpet.

South Stairway (1st-3rd floor) Abated June 2018

9" Floor Tile and Mastic	Assumed	120 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs; they are on each landing under the carpet.
-------------------------------------	---------	---------------------	------------------------------	------	------	--	------	--

Attic (ladder in room 377)

Flashing (old roof flashing)	13% Chrysotile	4 ft	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos flashing is around the attic access hatch; it is old roof flashing.
------------------------------	----------------	------	------------------------------	------	------	--	------	--

* = Non-Friable materials were not assessed

LEGEND TECHNICAL SERVICES, INC.
ACMS LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)
 STOCKBRIDGE HALL (BUILDING A042)

ROOM/ ACMS	ASBESTOS TYPE	EST. QUANTITY	ACMS TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
---------------	---------------	------------------	-----------	-----------------------	---------------------	--------------------	------------------------------	-------

¹Assessment Categories:

- 1) Damaged or Significantly Damaged TSI ACMS
- 2) Damaged Friable Surfacing ACMS
- 3) Significantly Damaged Friable Surfacing ACMS
- 4) Damaged or Significantly Damaged Friable Miscellaneous ACMS

- 5) ACMS with Potential for Damage
- 6) ACMS with Potential for Significant Damage
- 7) Any Remaining Friable ACMS or Friable Suspected ACMS

End