

## **NARRATIVE REPORT**

### **1.0 BUILDING INFORMATION**

Waldron Hall was originally constructed in 1958; a 1967 addition extended the building to the north and west. Although specific information could not be located, small renovations are evident.

Waldron Hall is a two-story, 63,393 ft<sup>2</sup> building which primarily serves as office areas and work areas for agricultural personnel. Loftsgard Hall (A078) is attached via a skyway to the east side of Waldron Hall and is reported separately. The skyway is included in the Loftsgard Hall report.

The interior floor finishes included concrete, floor tile, and carpet; the interior wall finishes included gypsum wallboard, brick, concrete block, and ceramic block; and the interior ceiling finishes included ceiling tile, plaster, and metal. The roofing system is a flat rubber-membrane roof and the exterior of the structure is brick.

The piping systems were insulated; aircell insulation (with hard fittings) is located in the 1957 building and fiberglass insulation (with hard fittings) and mag block insulation (with hard fittings) are located in the 1968 building. Steam enters the building via a pit into room 120 and domestic water enters the building in room 110. HVAC systems located in the building consisted of steam unit heaters, steam radiators, and forced air furnaces equipped with heating/cooling coils.

### **2.0 ASBESTOS SURVEY INFORMATION**

Waldron 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.

A total of 166 samples were collected from suspect asbestos-containing materials (ACM) from Waldron Hall on October 11, 2007 and an additional 1 sample was collected on January 25, 2008. Laboratory analysis results indicate **63 of these samples tested positive for asbestos.**

#### **2.1 Suspect Materials Identified and Sampled**

Plaster- Skimcoat	Plaster- Basecoat
Rock Lattice	Aircell Pipe Insulation
Hard Fittings on Aircell Insulation	Window Glazing
Encapsulant on Fiberglass Insulation (5 types)	Gypsum Wallboard (6 types)
Penetration Putty (3 types)	Firestop
HVAC Duct Caulk (2 types)	Tar Pipe Wrap
Window Caulk (2 types)	Garage Door Caulk
Exterior Window Glazing on Garage Door	Exterior Door Caulk (2 types)
Exterior Window Glazing on Door	Exterior Window Caulk
Exterior Window Glazing on Door/Window System	Exterior Penetration Putty (2 types)
Exterior Window Glazing (3 types)	Exterior AC Unit Caulk (2 types)
Greenhouse Door Caulk	Greenhouse Window Caulk
Transite Panels	Hard Fittings on Fiberglass Insulation
Transite Panels (workbenches)	Greenhouse Window Glazing
Exterior Greenhouse Door Caulk	Exterior Greenhouse Window Caulk

Exterior Greenhouse HVAC Unit Caulk (2 types)	Black Material (on door)
Plaster- Monocoat	Joint Compound (4 types)
Ceiling Tile (8 types)	Floor Tile (7 types)
Floor Tile Mastic (7 types)	Carpet Mastic
Baseboard Adhesive	Window Glazing on Door
Stair Tread Adhesive	Mag Block Pipe Insulation
Hard Fittings on Mag Black Pipe Insulation	HVAC Canvas Connector
Elevator Door Filler Material	Transite Exhaust Pipe
Transite Fume Hood	Stairway Baseboard Material
Door Caulk	Black Lab Countertops
Stair Tread Material	Stair Riser Material
Sink Undercoating (9 types)	Exterior Air Vent Caulk
Exterior Penetration Putty (3 types)	Awning Texture
Roof Flashing (residual- on air vent)	Roof Caulk (filling penetrations)

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

## 2.2 **Asbestos Containing Materials**

Aircell Pipe Insulation  
 Hard Fittings on Aircell Insulation  
 Transite Ceiling Tile  
 12" Tan Marbled Floor Tile and Mastic  
 Mastic for 12" Gray Floor Tile w/ Red and Tan Specks  
 Mastic for 12" Tan Floor Tile w/ White Specks  
 Window Glazing on Door  
 Hard Fittings on Fiberglass Insulation  
 Mag Block Pipe Insulation  
 Hard Fittings on Mag Block Insulation  
 Elevator Door Filler Material  
 Transite Exhaust Pipe  
 Transite Fume Hood  
 Window Glazing  
 Gray Sink Undercoating (2 types)  
 White Sink Undercoating (1 type)  
 Black Sink Undercoating (3 types)  
 Exterior Window Glazing (3 types)  
 Exterior Window Glazing on Garage Door  
 Exterior Window Glazing on Door/Window System  
 Exterior Window Caulk (1 type)  
 Exterior AC Unit Caulk (1 type)  
 Exterior Air Vent Caulk  
 Exterior Penetration Putty (3 types)  
 Roof Flashing (residual- on air vent)  
 Greenhouse Window Caulk  
 Greenhouse Door Caulk (on exterior doors)  
 Greenhouse Window Glazing (interior windows)  
 Transite Panels  
 Transite Panels (workbenches)  
 Black Material (on door)  
 Exterior Greenhouse Window Caulk

Exterior Greenhouse Door Caulk  
 Exterior Greenhouse HVAC Unit Caulk (2 types)

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 Waldron Hall as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Aircell Pipe Insulation	190 ft	\$25.00/ ft	\$4,750.00
Asbestos Hard Fittings on Aircell Insulation	22 ea	\$25.00/ ea	\$550.00
Asbestos Ceiling Tile	208 ea	\$5.00/ ea	\$1,040.00
Asbestos Floor Tile and/or Mastic	12,789 ft <sup>2</sup>	\$4.00/ ft <sup>2</sup>	\$51,156.00
Asbestos Window Glazing (all types)	90 ea	\$225.00/ ea	\$20,250.00
Asbestos Sink Undercoating	15 ea	\$150.00/ ea	\$2,250.00
Asbestos Hard Fitting on Fiberglass Insulation	356 ea	\$60.00/ ea	\$21,360.00
Asbestos Mag Block Pipe Insulation	56 ft	\$25.00/ ea	\$1,400.00
Asbestos Hard Fitting on Mag Block Insulation	5 ea	\$25.00/ ea	\$125.00
Asbestos Elevator Door Filler Material	2 ea	\$500.00/ ea	\$1,000.00
Asbestos Transite Exhaust Pipe	58 ft	\$25.00/ ea	\$1,450.00
Asbestos Transite Fume Hood	2 ea	\$350.00/ ea	\$700.00
Asbestos Window Caulk	15 ea	\$125.00/ ea	\$1,875.00
Asbestos Air Vent Caulk	2 ea	\$125.00/ ea	\$250.00
Asbestos Penetration Putty	4 ea	\$60.00/ ea	\$240.00
Asbestos Roof Flashing	2 ea	\$60.00/ ea	\$120.00
Asbestos Greenhouse Window Caulk (all types)	12,363 ft	\$4.00/ ft	\$49,452.00
Asbestos Greenhouse Door Caulk (all types)	4 ea	\$125.00/ ea	\$500.00
Asbestos Greenhouse Window Glazing	960 ea	\$25.00/ ea	\$24,000.00
Asbestos Transite Panels	14 ea	\$150.00/ ea	\$2,100.00
Asbestos Black Material (on door)	1 ea	\$150.00/ ea	\$150.00
Asbestos Greenhouse HVAC Unit Caulk (all types)	42 ea	\$125.00/ ea	\$5,250.00
<b>Total Estimated Abatement Costs:</b>			<b>\$189,968.00</b>

### 2.4 **Survey Notes**

LEGEND observed a large quantity of transite panels (workbenches) in the greenhouses. These transite panels are not building materials and were not quantified by LEGEND during the asbestos survey. LEGEND sampled these materials during the survey (samples #45/#46), a review of the results indicate some of these transite panels (workbenches) contain asbestos. LEGEND recommends assuming all of these transite panels (workbenches) to be asbestos.

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 101A**

Aircell Pipe Insulation	50% Chrysotile	6 ft	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	The aircell pipe insulation is in the southeast corner of the room.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
Hard Fittings on Aircell Insulation	15% Chrysotile	2 ea	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		

**Room 101B**

Aircell Pipe Insulation	50% Chrysotile	18 ft	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	The aircell pipe insulation is along the east wall of the room.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
Hard Fittings on Aircell Insulation	15% Chrysotile	2 ea	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		

**Room 101C**

Aircell Pipe Insulation	50% Chrysotile	50 ft	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	The aircell pipe insulation is along the east wall and crosses the center of the room.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
Hard Fittings on Aircell Insulation	15% Chrysotile	5 ea	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		

**Room 101D** Abated Feb 2012

<del>Aircell Pipe Insulation</del>	50% Chrysotile	51 ft	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	The aircell pipe insulation is along the north and west walls of the room.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
<del>Hard Fittings on Aircell Insulation</del>	15% Chrysotile	3 ea	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 101E** Abated Feb 2012

<del>Aircell Pipe Insulation</del>	50% Chrysotile	42 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 aircell pipe insulation is along the north wall and in the southeast corner of the room.
<del>Hard Fittings on Aircell Insulation</del>	15% Chrysotile	4 ea	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	None.

**Room 101F** Abated Feb 2012

<del>Aircell Pipe Insulation</del>	50% Chrysotile	27 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 aircell pipe insulation is along the east wall of the room.
<del>Hard Fittings on Aircell Insulation</del>	15% Chrysotile	5 ea	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	None.

**Room 103A**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	27 ea	Friable TSI	Good	Physical Air Erosion Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	7	The hard fittings are on pipe runs above the ceiling tile along the north and south walls.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	594 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.
Transite Exhaust Pipe	20% Chrysotile	8 ft	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The transite exhaust pipe is in the northeast corner of the room attached to the top of a fume hood.

**Room 103B**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	7 ea	Friable TSI	Good	Physical Air Erosion Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	7	The hard fittings are on pipe runs above the ceiling tile along the north and east walls.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	253 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
Transite Exhaust Pipe	20% Chrysotile	8 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite exhaust pipe is in the southeast corner of the room attached to the top of a fume hood.
Transite Fume Hood	20% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite fume hood is in the northeast corner of the room.

**Room 104**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	9 ea	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 hard fittings are on pipe runs across the center of the room.
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**Room 107**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	10 ea	Friable TSI	Good	Physical Air Erosion Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	7	The hard fittings are on pipe runs above the ceiling tile along the north and south walls.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	253 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.

**Room 108**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	15 ea	Friable TSI	Damaged	Physical Air Erosion Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1	The hard fittings are on pipe runs above the ceiling tile along the north and south walls.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	253 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.

\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 109**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	15 ea	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The hard fittings are on pipe runs above the ceiling tile along the north and south walls.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	253 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.

**Room 110** Including 110A & 110B

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	46 ea	Friable TSI	Damaged	Physical Air Erosion Vibration	□□■ □□■ □□■	1	The hard fittings are on pipe runs throughout the room.
Mag Block Pipe Insulation	20% Amosite	56 ft	Friable TSI	Damaged	Physical Air Erosion Vibration	□□■ □□■ □□■	1	The mag block pipe insulation is in the southeast corner of the room (small amount) and in the center of the room leading to the AHU.
Hard Fittings on Mag Block Insulation	2% Chrysotile 2% Amosite	5 ea	Friable TSI	Damaged	Physical Air Erosion Vibration	□□■ □□■ □□■	1	None.

**Room 111**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	12 ea	Friable TSI	Significant Damage	Physical Air Erosion Vibration	■□□ ■□□ ■□□	1	The hard fittings are on pipe runs above the ceiling tile along the north and south walls.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	253 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.

**Room 112**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	63 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.
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\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 113**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	15 ea	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The hard fittings are on pipe runs above the ceiling tile along the north, south, and west walls.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	220 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
Transite Exhaust Pipe	20% Chrysotile	12 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite exhaust pipe is along the west wall of the room (by the northwest door) attached to the top of a fume hood.
Gray Sink Undercoating	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink is along the west wall.

**Room 113A**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	9 ea	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The hard fittings are on pipe runs above the ceiling tile along the north wall.
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**Room 118** Including room 118B, concrete floor

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	27 ea	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	The hard fittings are on pipe runs above the plaster ceiling in this room.
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**Room 119**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	5 ea	Friable TSI	Good	Physical Air Erosion Vibration	□□■ □■□ □■□	6	The hard fittings are on pipe runs along the west and south walls in this room.
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**Room 120**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	58 ea	Friable TSI	Damaged	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		1	34 hard fittings are in the HVAC pit on the west side of the room, an additional 22 are spread throughout the room.
Transite Ceiling Tile	15% Chrysotile	208 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite ceiling tile is in the HVAC pit on the west end of the room.

**Room 120B**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	1 ea	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	The hard fitting is in the southeast corner of the room.
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**Rooms 121-121F (North Greenhouse)**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	12 ea	Friable TSI	Significantly Damaged	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		1	The hard fittings are throughout the greenhouse. Refer to the ACM Locations Map for further information.
Greenhouse Window Glazing (interior windows)	5% Chrysotile	480 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The glazing is on the interior windows dividing the greenhouse rooms from each other.
Greenhouse Window Caulk	10% Chrysotile	3,900 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The window caulk is on the north and south walls throughout the greenhouse and on the east wall in room 121A.
Greenhouse Door Caulk	3% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The caulk is on the door in the northwest corner of room 121F.
Black Material (on door)	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The black material is on the door in the northwest corner of room 121F.

\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Rooms 122-122F (South Greenhouse)**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	16 ea	Friable TSI	Significantly Damaged	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		1	The hard fittings are throughout the greenhouse. Refer to the ACM Locations Map for further information.
Greenhouse Window Glazing (interior windows)	5% Chrysotile	480 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The glazing is on the interior windows dividing the greenhouse rooms from each other.
Greenhouse Window Caulk	10% Chrysotile	1,823 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The window caulk is on the south walls throughout the greenhouse and on the east and north walls in room 122.
Greenhouse Door Caulk	3% Chrysotile	3 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The caulk is around the doors in room 122 (east end), 122F (northwest corner), and room 122A (southwest corner).

**Room 130**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	85 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 132**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	85 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Elevator 177E**

Elevator Door Filler Material	55% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The elevator doors to on the west side of the elevator have an asbestos filler material in them.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Stairway 177S (East Stairway)**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	101 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.
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**Stairway 177S1 (West Stairway)**

Room 118B under the stairs, concrete floor

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	101 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.
Window Glazing on Door	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The glazing is on the door on the east end of the stairway (at the 1 <sup>st</sup> floor level).

**Hallway 188**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	2 ea	Friable TSI	Good	Physical ■□□ Air Erosion ■□□ Vibration ■□□	7	The hard fittings are above the ceiling tile by the door for room 104.
<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	465 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.
Window Glazing (reinforced windows by door)	3% Chrysotile	2 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The glazing is on the windows in the northwest corner of this section of the hallway (by room 103/103A).

Abated June 2020

**Hallway 188A**

<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	960 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.
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Abated April 2021

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 188B**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	10 ea	Friable TSI	Significantly Damaged	Physical Air Erosion Vibration	■□□ ■□□ ■□□	1	The hard fittings are above the ceiling tile on the south end of this part of the hallway.
<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	232 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.

Abated April 2021

**Room 199**

Aircell Pipe Insulation	50% Chrysotile	6 ft	Friable TSI	Damaged	Physical Air Erosion Vibration	□□■ □■□ □■□	1	The aircell pipe insulation is in the northeast corner of the bathroom.
Hard Fittings on Aircell Insulation	15% Chrysotile	1 ea	Friable TSI	Damaged	Physical Air Erosion Vibration	□□■ □■□ □■□	1	None.

**Room 199M**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	3 ea	Friable TSI	Significantly Damaged	Physical Air Erosion Vibration	■□□ ■□□ ■□□	1	The hard fittings are above the ceiling tile in this room.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	72 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.

**Room 199W**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	5 ea	Friable TSI	Damaged	Physical Air Erosion Vibration	■□□ ■□□ ■□□	1	The hard fittings are above the ceiling tile in this room.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	72 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Hallway 201**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	143 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 201A**

Mastic for 12" Gray Floor Tile with Red and Tan Specks	15% Chrysotile	90 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos; the floor tile is negative.
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**Room 201D**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	240 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos; they are under the carpet.
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**Room 201E**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos; they are under the carpet.
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**Room 201F**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	160 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos; they are under the carpet.
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**Room 201G**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos; they are under the carpet.
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**LEGEND TECHNICAL SERVICES, INC.**  
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 201H** Abated January 2014

<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos; they are under the carpet.
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**Room 201J**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	276 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 202**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	644 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
Transite Exhaust Pipe	20% Chrysotile	6 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite exhaust pipe is along the south wall of the room attached to the top of a fume hood.
Transite Fume Hood	20% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite fume hood is in the southeast corner of the room.
White Sink Undercoating	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink is on the south end of the room towards the west side; refer to the ACM Locations Map for further information.
Black Sink/Counter Undercoating	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink/counter is in the center of the room on the south end; refer to the ACM Locations Map for further information.

**Room 202A**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	1 ea	Friable TSI	Good	Physical Air Erosion Vibration	<div> <div>■</div> <div>□</div> <div>□</div> </div> <div> <div>■</div> <div>□</div> <div>□</div> </div> <div> <div>■</div> <div>□</div> <div>□</div> </div>	7	The hard fittings are above the ceiling tile in the northeast corner of this room.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	120 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
<b>Hallway 203</b> Abated Feb 2015								
<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	143 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos; they are under the carpet.
<b>Room 203B</b> Abated Feb 2015								
<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	140 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
<b>Room 203C</b> Abated Feb 2015								
<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	140 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
<b>Room 203D</b> Abated Feb 2015								
<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	140 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
<b>Room 203E</b> Abated Feb 2015								
<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	140 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 203E1** Abated Feb 2015

<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	126 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
<del>Black Sink Undercoating</del>	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink is along the north wall.

**Room 203E1A** Abated Feb 2015

<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	120 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 204** Abated Feb 2015

<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	172 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos; they are under the carpet.
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**Room 205**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	216 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
Transite Exhaust Pipe	20% Chrysotile	6 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite exhaust pipe is in the southwest of the room attached to the top of a fume hood.
Gray Sink Undercoating	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink is in the center of the room.



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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 205A**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	1 ea	Friable TSI	Damaged	Physical Air Erosion Vibration	<div> <div>■</div> <div>□</div> <div>□</div> </div>	1	The hard fittings are above the ceiling tile in the northeast corner of this room.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.

**Room 205B**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.
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**Room 206**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	216 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.
Transite Exhaust Pipe	20% Chrysotile	6 ft	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The transite exhaust pipe is in the southeast of the room attached to the top of a fume hood.
Gray Sink Undercoating	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The sink is along the south wall of the room.

**Room 206A**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The floor tile and mastic both contain asbestos.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 206B**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 207** Abated Feb 2015

<del>Hard Fittings on Fiberglass Insulation</del>	0-3% Chrysotile 0-3% Amosite	3 ea	Friable TSI	Good	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		7	The hard fittings are above the ceiling tile in the northwest corner of this room.
<del>12" Tan Marbled Floor Tile and Mastic</del>	3-5% Chrysotile	580 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
<del>Transite Exhaust Pipe</del>	20% Chrysotile	6 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite exhaust pipe is above the ceiling tile along the west wall of the room (it has been abandoned).
<del>White Sink Undercoating</del>	5% Chrysotile	4 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sinks are in the center of the room; refer to the ACM Locations Map for further information.
<del>Black Sink Undercoating</del>	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink is in the center of the room; refer to the ACM Locations Map for further information.

**Room 207A**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	91 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 208**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	216 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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Gray Sink Undercoating	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink is along the south wall of the room.
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**Room 208A**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 209**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	256 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 209A**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	1 ea	Friable TSI	Damaged	Physical <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vibration <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		1	The hard fitting is above the ceiling tile in the northwest corner of this room.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.

**Room 210**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	380 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
Transite Exhaust Pipe	20% Chrysotile	6 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite exhaust pipe is in the northwest corner of the room attached to the top of a fume hood.
White Sink Undercoating	5% Chrysotile	2 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sinks are in the center of the room; refer to the ACM Locations Map for further information.

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 210A**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 210B**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	100 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 211**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	256 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 212**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	256 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 213**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	1 ea	Friable TSI	Damaged	Physical Air Erosion Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1	The hard fitting is above the ceiling tile in the northwest corner of this room.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	256 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.

**Room 214B**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	256 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 215A**

Black Sink Undercoating	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink is in the northeast corner of the room.
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**Room 277E**

Elevator Door Filler Material	55% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The elevator doors to on the west side of the elevator have an asbestos filler material in them.
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**Stairway 277S**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	40 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 277S1**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	80 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Hallway 288**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	2 ea	Friable TSI	Good	Physical Air Erosion Vibration	<div> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> <div> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> <div> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div>	7	The hard fittings are above the ceiling tile in the hallway by stairway 277S1.
12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	900 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos; they are in the straight part of the hallway and by room 210.
Mastic for 12" Gray Floor Tile with Red and Tan Specks	15% Chrysotile	497 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos it is in the northeast end of the hallway; the floor tile is negative.

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 299M**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	72 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Room 299W**

12" Tan Marbled Floor Tile and Mastic	3-5% Chrysotile	72 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The floor tile and mastic both contain asbestos.
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**Stairway 377S1**

Mastic for 12" Tan Floor Tile with White Specks	2% Chrysotile	40 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The mastic contains asbestos; the floor tile is negative.
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**Tunnel (from northeast corner of room 120 to room 122A)**

Hard Fittings on Fiberglass Insulation	0-3% Chrysotile 0-3% Amosite	65 ea	Friable TSI	Damaged	Physical Air Erosion Vibration	■□□ □□■ □■□	1	The hard fittings are throughout the tunnel.
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**Exterior**

Penetration Putty (on electric conduit)	10-20% Chrysotile	3 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The penetration putty is in 3 locations ; refer to the ACM Locations Map for further information
Penetration Putty (on natural gas line)	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The penetration putty is on the natural gas line by room 118.
Air Vent Caulk	5% Chrysotile	2 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The air vents are on the west side of the building in between the garage doors for room 120.

\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
Window Glazing (on windows around door)	5% Chrysotile	3 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The glazing is on the windows around the doors at the main entry on the east side of the building (south of room 103).
Window Glazing	5% Chrysotile	77 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The glazing is on the windows on the 1967 building.
<del>Window Glazing and Window Caulk</del>	3% Chrysotile	<del>15</del> ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The windows with the glazing and caulk are on the 1958 building; the south window for room 101B also has asbestos caulk on the AC Unit.
	Abated July 2008	0						
Window Glazing on Garage Door	3% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The glazing is on the windows on the garage door for room 101G.
<del>Window Glazing on Door/Window System</del>	3% Chrysotile	<del>6</del> ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The glazing is on 1 door and 5 windows at the southeast entry to the building by room 188D.
	Abated July 2008	0						
Greenhouse Window Caulk	10% Chrysotile	6,640 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The window caulk is on the greenhouse windows around both greenhouses.
Greenhouse HVAC Unit Caulk	2-10% Chrysotile	42 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The caulk is around the upper and lower HVAC units on the south side of both greenhouses.
Greenhouse Door Caulk	10% Chrysotile	4 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The caulk is around the exterior doors for rooms 121F (nw corner), 122F (nw corner), 122 (east end), and 122A (se corners).
Transite Panels	20% Chrysotile	14 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite panels are on the north side of the greenhouses. There are 7 on each.

**Roof**

Flashing (residual- on air vent)	3% Chrysotile	2 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The flashing is a residual layer on 2 air vents immediately adjacent to the penthouse on the 1967 buildings.
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
WALDRON HALL (BUILDING A037)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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- <sup>1</sup>Assessment Categories:  
1) Damaged or Significantly Damaged TSI ACM  
2) Damaged Friable Surfacing ACM  
3) Significantly Damaged Friable Surfacing ACM  
4) Damaged or Significantly Damaged Friable Miscellaneous ACM
- 5) ACM with Potential for Damage  
6) ACM with Potential for Significant Damage  
7) Any Remaining Friable ACM or Friable Suspected ACM

End

\* = Non-Friable materials were not assessed