

NARRATIVE REPORT

1.0 BUILDING INFORMATION

Dunbar Hall was originally constructed in 1963; the building has had several renovations, notably, a 1975 renovation throughout the building.

Dunbar Hall is a five-story, 33,054 ft² building which primarily serves as office areas and work areas for chemistry personnel. Ladd Hall (A005) and Hultz Hall (A026) are attached via skyways to the south side of Dunbar Hall and are each reported separately. The skyways are included in this report.

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

The piping systems were insulated; fiberglass insulation (with and without hard fittings) is located in the building and mag block insulation (with hard fittings) is located in the tunnels. Steam enters the building via the southwest tunnel branch into room 59 and domestic water enters the building in the tunnels below the west stairway. HVAC systems located in the building consisted of steam radiators, steam unit heaters, and forced air furnaces with heating/cooling coils.

2.0 ASBESTOS SURVEY INFORMATION

Dunbar Hall was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 2" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 2" for methodologies, definitions, and other pertinent supporting information.

A total of 136 samples were collected from suspect asbestos-containing materials (ACM) from Dunbar Hall on September 20, 2007, an additional 26 samples were collected on February 15, 2008, an additional 14 samples were collected on March 4, 2008, and an additional 2 samples were collected on March 13, 2008. Laboratory analysis results indicate **34 of these samples tested positive for asbestos.**

2.1 Suspect Materials Identified and Sampled

Plaster- Skimcoat	Plaster- Basecoat
Gypsum Wallboard (2 types)	Joint Compound (2 types)
Ceiling Texture	Wall Texture
Mag Block Pipe Insulation	Hard Fittings on Mag Block Insulation
Rainleader Bowl Insulation	Hard Pack Tank Insulation
Hard Fittings on Fiberglass Insulation (5 types)	Sink Undercoating (4 types)
Encapsulant on Fiberglass Insulation (4 types)	Exterior Window Glazing
Window Glazing on Door (4 types)	Tar Pipe Wrap
HVAC Canvas Connector (2 types)	Black HVAC Duct Coating
Penetration Putty (by HVAC Duct)	HVAC Duct Caulk (3 types)
Fume Hood Exhaust Duct Caulk (3 types)	Metal Lab Countertop Undercoating
Black Lab Countertop (8 types)	Gray Lab Countertop

Fume Hood (5 types)
 Transite Panels (above/below windows)
 Baseboard Adhesive (2 types)
 Floor Tile (4 types)
 Pyrobar
 Transite Shelf (behind chalkboard)
 Window Caulk
 Exterior Door Caulk (2 types)
 Exterior Building Seam Caulk (2 types)
 Exterior Window Caulk

Window Sill Material
 Carpet Mastic (2 types)
 Ceiling Tile (10 types)
 Floor Tile Mastic (4 types)
 Glue Pucks (2 types)
 Door Caulk
 Paper Pipe Wrap (on sewer vent pipe)
 Exterior Penetration Putty (3 types)
 Exterior Air Vent Caulk (2 types)
 Window Glazing

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 **Asbestos Containing Materials**

Mag Block Pipe Insulation
 Hard Fittings on Fiberglass Insulation (1 type)
 Encapsulant on Fiberglass Insulation (1 type)
 Sink Undercoating (3 types)
 Exterior Window Glazing
 Window Glazing on Door (3 types)
 Black HVAC Duct Coating
 Metal Lab Countertop Undercoating
 Gray Lab Countertop
 Transite Panels (above/below windows)
 Transite Shelves (behind chalkboards)
 Door Caulk
 Window Caulk
 Exterior Penetration Putty (1 type)
 Exterior Air Vent Caulk (2 types)
 Exterior Door Caulk (1 type)
 Window Glazing
 Black Lab Countertop (1 type)
 Fume Hood (1 type)
 9" Floor Tile and Mastic (assumed)

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 Dunbar Hall as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Mag Block Pipe Insulation	115 ft	\$25.00/ft	\$2,875.00
Asbestos Hard Fittings on Fiberglass Insulation	295 ea	\$60.00/ea	\$17,700.00
Asbestos Encapsulant on Fiberglass Insulation	10 ft	\$60.00/ft	\$600.00

Asbestos Sink Undercoating (all types)	3 ea	\$150.00/ea	\$450.00
Asbestos Window Glazing (all types)	211 ea	\$225.00/ea	\$47,475.00
Asbestos HVAC Duct Coating	186 ft	\$20.00/ft	\$3,720.00
Asbestos Metal Lab Countertop Undercoating	5 ea	\$350.00/ea	\$1,750.00
Asbestos Gray/Black Lab Countertop	10 ea	\$350.00/ea	\$3,500.00
Asbestos Transite Panels	153 ea	\$200.00/ea	\$30,600.00
Asbestos Transite Shelves	54 ea	\$50.00/ea	\$2,700.00
Asbestos Door Caulk (all types)	8 ea	\$125.00/ea	\$1,000.00
Asbestos Window Caulk	99 ea	\$125.00/ea	\$12,375.00
Asbestos Penetration Putty	1 ea	\$60.00/ea	\$60.00
Asbestos Air Vent Caulk	4 ea	\$125.00/ea	\$500.00
Asbestos Fume Hood	1 ea	\$350.00/ea	\$350.00
Asbestos Floor Tile and Mastic	1,344 ft ²	\$4.00/ft ²	\$5,376.00
Total Estimated Abatement Costs:			\$131,031.00

2.4 Survey Notes

Encapsulant on Fiberglass Insulation was sampled throughout the building from: original vintage, room 50B replacement vintage, room 59 replacement vintage, and room 351B vintage. The encapsulant on the room 351B vintage tested positive for asbestos, only. The steam pipes supply two autoclaves and appear to have been installed after the buildings original construction. The steam supply pipe originates in the penthouse and the steam exhaust pipe ends outside of the penthouse; no further encapsulant was identified on these pipes outside of room 351B. In addition, LEGEND sampled the encapsulant/canvas on fiberglass insulation on both autoclaves; they were both negative for asbestos.

LEGEND identified and collected samples from 8 types (homogeneous areas) of black lab countertops in Dunbar Hall. One type tested positive for asbestos (sample #156); black lab countertops in this homogeneous area are identified as ACM on the ACM locations tables and diagrams. The remaining 7 black lab countertop homogeneous areas (samples #80, 153, 154, 155, 157, 158, and 159) are non-ACM and are not identified on the ACM location tables or diagrams. In addition, ACM gray lab countertops and ACM metal lab countertop undercoating were identified in Dunbar Hall.

LEGEND identified and collected samples from 5 types (homogeneous areas) of fume hoods in Dunbar Hall. One type tested positive for asbestos (sample #160); the fume hood in this homogeneous area is identified as ACM on the ACM locations tables and diagrams. The remaining 4 fume hood homogeneous areas (samples #82, 83, 161, and 162) are non-ACM and are not identified on the ACM location tables or diagrams.

Hard Fittings on Fiberglass Insulation were sampled throughout the building from: steam pipes, domestic water pipes, rainleader pipes, and hot water heating pipes. Hard fittings on steam pipes, domestic water pipes, and rainleader pipes were negative for asbestos throughout the building. Hard fittings on hot water heating pipes tested negative for asbestos in the tunnels (samples #152, 171, 172, 173, 174, 175, and 176), on 3rd floor (samples #165 and 166), and in the penthouse (samples #163 and 164) and tested positive for asbestos in the basement (samples #54, 56, and 143) and on 1st floor (samples# 144 and 145). In addition, on 2nd floor the hot water heating pipes belong to one of two separate systems; the perimeter system (samples

#55, 57, 149, 168, 169, 170, and 178) tested negative for asbestos and the second system (samples #167 and 177) tested positive for asbestos. In addition, LEGEND sampled Rainleader Bowl Insulation; it was negative for asbestos.

In summary, the basement hot water heating system, the 1st floor hot water heating system, and the second hot water heating system on 2nd floor have ACM hard fittings on fiberglass insulation. On the ACM locations diagrams these systems have been hatched in their entirety. This was done to show system continuity to assist in on-site identification of the ACM hard fittings.

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 50

Window Caulk	2% Chrysotile	7 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the north side of room 50.
Abated January 2022								
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	6 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Abated January 2018 after fire								
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 50A

Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	19 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Abated January 2018 after fire								
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 50B

Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	18 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Abated January 2018 after fire								
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 51 **Abated January 2022**

Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the northeast corner of the room and measure 6"x 5' each.
Metal Lab Countertop Undercoating	10% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The metal lab counter tops measure 5'x14' each and are located in the center of the room.
Window Caulk	2% Chrysotile	4 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the south side of room 51.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	11 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 54

Window Glazing on Door Abated January 2022	5% Chrysotile	1 door	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is located on the south door leading to the hallway.
9" Floor Tile and Mastic Abated March 2009	Assumed	144 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic (under carpet) were assumed to be ACMs.
White Sink Undercoating Abated January 2022	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	There is only sink in the room, it is along the west wall that borders room 50.

Room 54A

9" Floor Tile and Mastic Abated March 2009	Assumed	200 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic (under carpet) were assumed to be ACMs.
Window Caulk Abated January 2022	2% Chrysotile	2 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the north side of room 54A.
Hard Fittings on Fiberglass Insulation Abated March 2009	2-10% Chrysotile 3-10% Amosite	6 fittings	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	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

Room 54B

9" Floor Tile and Mastic Abated March 2009	Assumed	120 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic (under carpet) were assumed to be ACMs.
Window Caulk Abated January 2022	2% Chrysotile	2 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the north side of room 54B.
Hard Fittings on Fiberglass Insulation Abated March 2009	2-10% Chrysotile 3-10% Amosite	4 fittings	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	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 55 Abated January 2022

Window Caulk	2% Chrysotile	4 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the south side of room 55.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	6 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

Room 56 Abated January 2022

Metal Lab Countertop Undercoating	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The metal lab counter top measures 5'x 8' and is located in the west part of the room.
Window Caulk	2% Chrysotile	7 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the north side of room 56.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	20 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

Room 57 Abated January 2022

Window Caulk	2% Chrysotile	4 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the south side of room 57.
Black Lab Countertop (under fume hood)	25% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos black lab countertop is under the fume hood in the northeast corner of the room.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	12 fittings	Friable TSI	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	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
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Room 58

Window Caulk Abated January 2022	2% Chrysotile	4 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the north side of room 58.
Fume Hood Abated January 2022	25% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos fume hood is in the southeast corner of the room.
Black Lab Countertop (under fume hood) Removed January 2009	25% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos black lab countertop is under the west fume hood along the south wall.
Hard Fittings on Fiberglass Insulation Abated January 2022	2-10% Chrysotile 3-10% Amosite	12 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

Room 62 **Abated January 2022**

Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	14 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
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Room 66 **Abated January 2022**

Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	3 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
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Stairway 77S **Abated January 2022**

9" Floor Tile and Mastic	Assumed	12 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Glazing on Door	5% Chrysotile	2 doors	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the doors on the east side of the stairwell leading to hallway 88.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Stairway 77S1 Abated January 2022								
9" Floor Tile and Mastic	Assumed	12 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACM.
Hallway 88 Abated January 2022								
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	6 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Hallway 88A Abated January 2022								
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	12 fittings	Friable TSI	Good	Physical Air Erosion Vibration	□□■ ■□□ ■□□	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Room 150 Abated January 2022								
Window Glazing	2% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows are on the east wall in this room.
Room 150A Abated Dec 2012								
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	6 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Room 150B Removed and made part of 150A								
9" Floor Tile and Mastic	Assumed	72 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Black Sink Undercoating	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	There is only sink in the room, it is along the west side of room 150B.

* = Non-Friable materials were not assessed

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 151 Abated January 2022

Transite Shelves (behind chalkboard)	10% Chrysotile	6 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the east side of room 151 and measure 6"x 5' each.
Window Caulk	2% Chrysotile	8 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows are on the south side of room 151.
Black Lab Countertop (under fume hood)	25% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos black lab countertops are under fume hoods along the north wall in the room.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	17 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

Room 151A Abated January 2022

Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	8 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
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Room 152 Abated January 2022

Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	9 fittings	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	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
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Room 156 Abated January 2022

Transite Shelves (behind chalkboard)	10% Chrysotile	6 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board in the east side of room 156 and measure 6"x 5' each.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	8 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

* = Non-Friable materials were not assessed

Abated January 2022

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
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Room 156A Abated January 2022

9" Floor Tile and Mastic	Assumed	140 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	9 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

Room 157 Abated January 2022

White Sink Undercoating	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	There is only sink in the room, it is in the middle of room 157.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	14 fittings	Friable TSI	Good	Physical Air Erosion Vibration	□□■ ■□□ ■□□	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

Room 158 Abated January 2022

9" Floor Tile and Mastic	Assumed	140 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic (under carpet) were assumed to be ACMs.
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Room 159 and 159A Abated January 2022

Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the west side of room 159 and measure 6"x 5' each.
Window Caulk	2% Chrysotile	4 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the south side of room 159
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	7 fittings	Friable TSI	Good	Physical Air Erosion Vibration	□□■ ■□□ ■□□	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 160 Abated January 2022

9" Floor Tile and Mastic	Assumed	560 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the west side of room 160 and measure 6"x 5' each.
Black Lab Countertop (under fume hood)	25% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos black lab countertop is under the west fume hood along the south wall.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	7 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

Stairway 177S Abated January 2022

Door Caulk	2% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The door caulk is on the west side of the stairway, around the entry doors.
Window Glazing on Door	5% Chrysotile	2 doors	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the doors on the east side of the stairway, leading to hallway 188.

Stairway 177S1 Abated January 2022

Door Caulk	2% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The door caulk is on the east side of the stairway, around the entry doors.
Window Glazing on Door	5% Chrysotile	2 doors	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the doors on the west side of the stairway, leading to hallway 188.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Hallway 188 Abated January 2022

Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	5 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
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Hallway 188A (including the entry area to the skyway) Abated January 2022

9" Floor Tile and Mastic	Assumed	128 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACM.
Window Caulk	2% Chrysotile	8 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the east and west side of hallway 188A and on the north and east side of the entry to the skyway.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	4 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Transite Panels	20% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite panels are around the windows on the north end of the entry to the skyway.
Window Glazing	10% Chrysotile	3 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the windows on the north and east ends of the entry to the skyway.

Room 199W Abated January 2022

Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	6 fittings	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	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
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Room 250 Abated January 2022

Transite Shelves (behind chalkboard)	10% Chrysotile	6 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the east side of room 250 and measure 6"x 5' each.
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* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Room 250A Abated January 2022								
9" Floor Tile and Mastic	Assumed	140 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Room 251A Abated January 2022								
Hard Fittings on Fiberglass insulation	2-10% Chrysotile 3-10% Amosite	21 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Room 251B Abated January 2022								
Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the east side of room 251B and measure 6"x 5' each.
Black Lab Countertop (under fume hood)	25% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos black lab countertop is under the fume hood in the northwest corner of the room.
Room 252 Abated January 2022								
Hard Fittings on Fiberglass insulation	2-10% Chrysotile 3-10% Amosite	4 fittings	Friable TSI	Good	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"/>		6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Room 254 Abated January 2022								
Window Caulk	2% Chrysotile	6 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the north side of room 254.
Room 255 Abated January 2022								
Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the east side of room 255 and measure 6"x 5' each.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	12 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	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Room 255A	Abated January 2022							
9" Floor Tile and Mastic	Assumed	140 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 256	Abated January 2022							
Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The transite shelves are behind the chalk board on the east side of room 256 and measure 6"x 5' each.
Window Caulk	2% Chrysotile	4 windows	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The windows on the north side of room 256.
Room 256A	Abated January 2022							
9" Floor Tile and Mastic	Assumed	140 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic (under carpet) were assumed to be ACMs.
Room 257	Abated January 2022							
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% 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	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
Room 259	Abated January 2022							
Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The transite shelves are behind the chalk board on the west side of room 259 and measure 6"x 5' each.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
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Window Caulk	2% Chrysotile	4 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the south side of room 259.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	10 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
					Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 260 Abated January 2022

Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the west side of room 260 and measure 6"x 5' each.
9" Floor Tile and Mastic	Assumed	560 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Caulk	2% Chrysotile	4 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the north side of room 260.

Room 261A Abated January 2022

Window Caulk	2% Chrysotile	2 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the north side of room 261A.
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Room 277S Abated January 2022

Window Glazing on Door	5% Chrysotile	2 doors	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the doors on the east side of the stairway, leading to hallway 288.
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Room 277S1 Abated January 2022

Window Glazing on Door	5% Chrysotile	2 doors	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the doors on the west side of the stairway, leading to hallway 288.
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* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Hallway 288 Abated January 2022

Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	15 fittings	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ ■□□	7	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.
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Hallway 288A Abated January 2022

9" Floor Tile and Mastic	Assumed	452 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Caulk	2% Chrysotile	6 windows	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The windows on the east and west side of hallway 288A.
Hard Fittings on Fiberglass Insulation	2-10% Chrysotile 3-10% Amosite	2 fittings	Friable TSI	Good	Physical Air Erosion Vibration	□□■ ■□□ ■□□	6	Refer to section 2.4 "Survey Notes" for important information. Refer to the ACM Locations Diagrams for exact locations.

Room 350 Abated January 2022

9" Floor Tile and Mastic	Assumed	625 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The transite shelves are behind the chalk board on the west side of room 350 and measure 6" x 5' each.
Black Lab Countertop (under fume hood)	25% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos black lab countertop is under the east fume hood along the south wall.

Room 350A Abated January 2022

9" Floor Tile and Mastic	Assumed	160 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 351B Abated January 2022

Encapsulant on Fiberglass Insulation	3% Chrysotile	10 ft	Friable Miscellaneous	Significantly Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	4	The encapsulant is on the steam pipes leading to the 2 autoclaves on the south wall.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		

Room 352 Abated January 2022

9" Floor Tile and Mastic	Assumed	140 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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Room 353 Abated January 2022

9" Floor Tile and Mastic	Assumed	625 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Caulk	2% Chrysotile	5 windows	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The windows on the south side of room 353.
Gray Lab Countertop	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The gray lab countertop measures 3'x 8' and is on the southwest corner of room 353.
Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The transite shelves are behind the chalk board on the east side of room 353 and measure 6"x 5' each.
Black Lab Countertop (under fume hood)	25% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The asbestos black lab countertop is under the fume hood in the northwest corner of the room.

Room 354 Abated January 2022

Window Caulk	2% Chrysotile	5 windows	Non-friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The windows on the north side of room 354.
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* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
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Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the west side of room 354 and measure 6"x 5' each.
Black Lab Countertop (under fume hood)	25% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos black lab countertop is under the fume hood in the southwest corner of the room.

Room 354A Abated January 2022

9" Floor Tile and Mastic	Assumed	160 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Caulk	2% Chrysotile	3 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the north side of room 354A.

Room 356 Abated January 2022

9" Floor Tile and Mastic	Assumed	216 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACM.
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Room 359 Abated January 2022

9" Floor Tile and Mastic	Assumed	560 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
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Room 360 Abated January 2022

9" Floor Tile and Mastic	Assumed	560 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic (under carpet) were assumed to be ACMs.
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* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Room 360A Abated January 2022								
9" Floor Tile and Mastic	Assumed	200 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic (under carpet) were assumed to be ACMs.
Room 361 Abated January 2022								
Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the west side of room 361 and measure 6"x 5' each.
Room 362 Abated January 2022								
Transite Shelves (behind chalkboard)	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite shelves are behind the chalk board on the west side of room 362 and measure 6"x 5' each.
Room 363 Abated January 2022								
9" Floor Tile and Mastic	Assumed	140 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Room 365 Abated January 2022								
9" Floor Tile and Mastic	Assumed	140 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Stairway 377S Abated January 2022								
Window Glazing on Door	5% Chrysotile	1 door	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the door on the east side of the stairway, leading to hallway 388.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Stairway 377S1 Abated January 2022								
Window Glazing on Door	5% Chrysotile	2 doors	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the doors on the west side of the stairway, leading to hallway 388.
Stairway 377S2 Abated January 2022								
Window Glazing on Door	5% Chrysotile	2 doors	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the door on the east side of the stairway, leading to hallway 388, and on the west side of the stairway (to 4 th floor).
Hallway 388A Abated January 2022								
9" Floor Tile and Mastic	Assumed	452 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.
Window Caulk	2% Chrysotile	6 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The windows on the east and west side of hallway 388A.
Room 403 Abated January 2022								
Black HVAC Duct Coating	10% Chrysotile	186 ft.	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The black HVAC duct coating is on the south side of room 403 and has a diameter of approximately 1.5 foot.
Stairway 477S2 Abated January 2022								
Window Caulk	2% Chrysotile	1 window	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window is on the west side of the stairway.
Tunnel Abated January 2022								
Mag Block Pipe Insulation	15% Chrysotile 5% Amosite	115 ft	Friable TSI	Damaged	Physical Air Erosion Vibration	<input type="checkbox"/> <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"/>	1	The mag block pipe insulation is on the main steam line in the southwest tunnel and on steam lines in the center tunnel (under hallway 88).

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
DUNBAR HALL (BUILDING A015)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Exterior Abated January 2022

Transite Panels	20% Chrysotile	151 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The transite panels are located on the north, south, east, and west sides of the building, both above and below windows.
Penetration Putty (on exhaust/steam vent pipe)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The penetration putty is on the south exterior wall outside of room 403 on an exhaust/steam vent.
Air Vent Caulk	2% Chrysotile	4 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The caulk is around the air vent to the west of room 50B and on the 3 air vents to the north and south of room 403.
Window Glazing	10% Chrysotile	189 188 windows	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The window glazing is on the exterior windows throughout the building.
Door Caulk	2% Chrysotile	4 ea	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The door caulk is around the entry doors on the east and west main entryways.

¹Assessment 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