

NARRATIVE REPORT

1.0 BUILDING INFORMATION

Engineering Administration was originally constructed in 1965; the building has had no major renovations.

Engineering Administration is a three-story, 9,579 ft² building which primarily serves as office space for architecture and engineering personnel. Dolve Hall (A018) and Architecture (A064) are attached via skyways to the east side of Engineering Administration, Civil Engineering (A066) is attached via a skyway to the north side of Engineering Administration, and Electrical Engineering (A065) is attached via a skyway to the west side of Engineering Administration and are each reported separately; the skyways do not contain suspect asbestos containing materials.

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

The piping systems were insulated; fiberglass insulation (with hard fittings) and mag block insulation (with hard fittings) are located in the building. Two tanks with hard insulation are located in the basement. Steam and domestic water enter the building via a tunnel into the basement. HVAC systems located in the building consisted of steam radiators and forced air furnaces equipped with heating/cooling coils.

2.0 ASBESTOS SURVEY INFORMATION

Engineering Administration was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 6" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 6" for methodologies, definitions, and other pertinent supporting information.

A total of 90 samples were collected from suspect asbestos-containing materials (ACM) from Engineering Administration on May 2, 2007 and an additional 4 samples were collected on March 12, 2008. Laboratory analysis results indicate **32 of these samples tested positive for asbestos.**

2.1 Suspect Materials Identified and Sampled

Hard Fittings on Fiberglass Insulation	Mag Block Pipe Insulation
Rainleader Bowl Insulation	Flooring Panels
Flooring Tar	Flooring Tarpaper
Flooring/Wall Tar	Black HVAC Canvas Connector
HVAC Duct Caulk (3 types)	Roof Crowning Caulk
Exterior Air Vent Caulk	Roof Flashing (3 types)
Hard Plaster- Monocoat	Hard Plaster- Basecoat
Hard Plaster- Skimcoat	Gypsum Wallboard
Joint Compound	Ceiling Texture (2 types)
Wall Texture (2 types)	Window Glazing
Window Caulk	Door Caulk
Exterior Awning Ceiling Texture	Exterior Window Caulk

Exterior Walkway Caulk
 White Sealant (above ceiling joists)
 Hard Pack on Fiberglass Insulation
 Sink Undercoating

Tank Insulation (2 types)
 Exterior Window Glazing
 Hard Fittings on Mag Block Insulation

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 **Asbestos Containing Materials**

Hard Fittings on Fiberglass Insulation
 Mag Block Pipe Insulation
 Rainleader Bowl Insulation
 Hard Fittings on Mag Block Insulation
 White HVAC Duct Caulk
 Gray HVAC Duct Caulk
 Gray Sink Undercoating
 Rough Ceiling Texture
 Popcorn Wall Texture
 Acoustical Ceiling Texture
 Tank #63-997-01 Insulation
 Small Vertical Tank Insulation
 Exterior Window Glazing
 Tan HVAC Duct Caulk
 Hard Pack on Fiberglass Insulation

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 Engineering Administration as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Hard Fittings on Fiberglass Insulation	181 ea	\$60.00/ea	\$10,860.00
Asbestos Rainleader Bowl Insulation	1 ea	\$60.00/ea	\$60.00
Asbestos Mag Block Pipe Insulation	100 ft	\$25.00/ft	\$2,500.00
Asbestos Hard Fittings on Mag Block Insulation	29 ea	\$25.00/ea	\$725.00
Asbestos Tank Insulation (all types)	6 ft ²	\$50.00/ft ²	\$3,000.00
Asbestos Sink Undercoating	2 ea	\$150.00/ea	\$300.00
Asbestos Window Glazing	31 ea	\$225.00/ea	\$6,975.00
Asbestos Hard Pack on Fiberglass Insulation	37 ea	\$60.00/ea	\$2,220.00
Asbestos HVAC Duct Caulk	3 ea	\$100.00/ea	\$300.00
Asbestos Ceiling Texture (all types)	5,386 ft ²	\$7.50/ft ²	\$40,395.00
Asbestos Wall Texture	217 ft ²	\$7.50/ft ²	\$1,627.50
Total Estimated Abatement Costs:			\$68,422.50

2.4 **Survey Notes**

LEGEND was unable to visually quantify hard fittings on fiberglass insulation throughout the basement, hallway 188, and room 399. However, on floors 1-2 inaccessible ceilings and pipe chase prevented LEGEND from verifying the presence of all possible additional hard fittings. LEGEND assumes additional hard fittings, whose presence is indicated on original mechanical drawings for the structure, will be discovered during renovation or demolition activities. LEGEND recommends assuming an additional 50-75 hard fittings on fiberglass insulation on each of the 1st and 2nd floors.

LEGEND was also able to visually quantify asbestos rainleader bowl insulation in room 399; original mechanical drawings for the structure indicate the presence of 3 additional rainleader bowls inside the awning above the 2nd floor exterior walkway. LEGEND was unable to visually verify the existence of the ACM insulation on the rainleader bowls and recommends assuming the ACM insulation is present in these 3 locations.

Several types (homogeneous areas) of HVAC Duct Caulk were identified and visually quantified in room 399. LEGEND inspected the remainder of the building for the presence of the HVAC Duct Caulk; however, the ductwork throughout the building is wrapped in fiberglass insulation. LEGEND located several areas in the access panels above hallway 188 where the fiberglass insulation was damaged and/or removed and was unable to identify HVAC Duct Caulk on the ducts. LEGEND assumes the HVAC Duct Caulks were isolated to room 399 and does not anticipate further quantities of HVAC Duct Caulk in the building. However, the potential exists that further quantities will be discovered during renovation or demolition activities.

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

LEGEND No. 0700048 (NDSU)
ENGINEERING ADMINISTRATION (BUILDING A063)

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

Hard Fittings on Fiberglass Insulation	25% Amosite	101 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The hard fittings on fiberglass insulation are throughout the basement mechanical area.
93 remain after October 2007 abatement								
Tank #63-997-01 Insulation	25% Amosite	4 ft ²	Friable TSI	Good	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	Tank #63-997-01 is a small horizontal tank in the center of the basement mechanical area.
Small Vertical Tank Insulation	8% Chrysotile	2 ft ²	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	1	The small vertical tank is in the center of the basement mechanical area.
Mag Block Pipe Insulation	25% Amosite	64 ft.	Friable TSI	Good	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The mag block pipe insulation is throughout the basement mechanical area.
Hard Fittings on Mag Block Pipe Insulation	25% Amosite	21 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The hard fittings on mag block insulation are throughout the basement mechanical area.
Hard Pack on Fiberglass Insulation	3% Chrysotile 2% Amosite	24 each	Friable TSI	Good	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The hard pack on fiberglass insulation is throughout the basement mechanical area.

Room 101

Acoustical Ceiling Texture	10% Chrysotile	197 ft ²	Friable Surfacing	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	2	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 103

Acoustical Ceiling Texture	10% Chrysotile	574 ft ²	Friable Sufficing	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	2	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

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Room 106 Abated Feb 2013

Acoustical Ceiling Texture	10% Chrysotile	587 ft ²	Friable Surfacing	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	2	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 108

Acoustical Ceiling Texture	10% Chrysotile	239 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Hallway 188

Acoustical Ceiling Texture	10% Chrysotile	264 ft ²	Friable Surfacing	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	2	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Hard Fittings on Fiberglass Insulation	25% Amosite	63 fittings	Friable TSI	Good	Physical	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	6	The hard fittings on fiberglass insulation are above the ceiling and accessible through several panels (includes area above room 104).
					Air Erosion	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
Hard Pack on Fiberglass Insulation	3% Chrysotile 2% Amosite	10 each	Friable TSI	Good	Physical	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	6	The hard pack on fiberglass insulation is above the ceiling and accessible through several panels (includes area above room 104).
					Air Erosion	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
					Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		

Hallway 188A

Acoustical Ceiling Texture	10% Chrysotile	140 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 199M

Acoustical Ceiling Texture	10% Chrysotile	99 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

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Room 199W

Acoustical Ceiling Texture	10% Chrysotile	99 ft ²	Friable Surfacing	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2	None.
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Room 201

Acoustical Ceiling Texture	10% Chrysotile	332 ft ²	Friable Surfacing	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	5	None.
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Room 202

Acoustical Ceiling Texture	10% Chrysotile	33 ft ²	Friable Surfacing	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	5	None.
Gray Sink Undercoating	15% Chrysotile	1 each	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The gray sink undercoating is on the west wall.

Room 203

Acoustical Ceiling Texture	10% Chrysotile	274 ft ²	Friable Surfacing	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	5	None.
Popcorn Wall Texture	3% Chrysotile	217 ft ²	Friable Surfacing	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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	5	The wall texture is on the middle partition wall and along the wall in the south west corner.
Rough Ceiling Texture	3% Chrysotile	44 ft ²	Friable Surfacing	Good	Physical Air Erosion Vibration	^(U) <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	5	The ceiling texture is in the south west corner of the room.

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Room 204

Acoustical Ceiling Texture	10% Chrysotile	96 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Gray Sink Undercoating	15% Chrysotile	1 each	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The gray sink undercoating is located along the north wall.

Room 207

Acoustical Ceiling Texture	10% Chrysotile	205 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 208

Acoustical Ceiling Texture	10% Chrysotile	245 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 209 (entry area)

Acoustical Ceiling Texture	10% Chrysotile	42 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 210

Acoustical Ceiling Texture	10% Chrysotile	258 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 211

Acoustical Ceiling Texture	10% Chrysotile	32 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

* = Non-Friable materials were not assessed

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Room 213

Acoustical Ceiling Texture	10% Chrysotile	63 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Hallway 288

Acoustical Ceiling Texture	10% Chrysotile	1,424 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Hallway 288A

Acoustical Ceiling Texture	10% Chrysotile	139 ft ²	Friable Surfacing	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5	None.
					Air Erosion	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
					Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

Room 399

Gray HVAC Duct Caulk	20% Chrysotile	1 ea.	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The gray HVAC duct caulk is on the topside of a duct along the west end of the room, where the duct turns.
White HVAC Duct Caulk	20% Chrysotile	1 ea.	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The white HVAC duct caulk is located on the south end of the large AHU where the clean air intake duct meets the AHU. (very thin layer)
Tan HVAC Duct Caulk	3% Chrysotile 2% Amosite	1 ea.	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The tan HVAC duct caulk is around the heating coils on the duct along the west end of the room.
Mag Block Insulation	15% Amosite	36 ft.	Friable TSI	Good	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"/>	6	The mag block insulation is located throughout room 399.
Hard Fittings on Mag Block Insulation.	3% Chrysotile 10% Amosite	8 fittings	Friable TSI	Good	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"/>	6	The hard fittings are on mag block insulation are located throughout room 399.

* = Non-Friable materials were not assessed

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Hard Fittings on Fiberglass Insulation	3% Chrysotile 10% Amosite	17 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input checked="" type="checkbox"/>	6	The hard fittings on fiberglass insulation are located throughout room 399.
Hard Pack on Fiberglass Insulation	3% Chrysotile 2% Amosite	3 ea.	Friable TSI	Good	Physical Air Erosion Vibration	<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"/> <input checked="" type="checkbox"/>	6	The hard pack on fiberglass insulation is on steam pipes leading to heating coils in duct work on the west end of room 399.
Rainleader Bowl Insulation	5% Chrysotile 3% Amosite	1 each	Friable TSI	Significantly Damaged	Physical Air Erosion Vibration	<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"/> <input checked="" type="checkbox"/>	1	The rainleader bowl insulation is located in the center of room 399.

Exterior

Window Glazing	2% Chrysotile	31 windows	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos window glazing is on the exterior windows. Refer to the ACM locations diagrams for exact locations.
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¹Assessment Categories:

- | | |
|---|---|
| 1) Damaged or Significantly Damaged TSI ACM | 5) ACM with Potential for Damage |
| 2) Damaged Friable Surfacing ACM | 6) ACM with Potential for Significant Damage |
| 3) Significantly Damaged Friable Surfacing ACM | 7) Any Remaining Friable ACM or Friable Suspected ACM |
| 4) Damaged or Significantly Damaged Friable Miscellaneous ACM | |

End