NARRATIVE REPORT

1.0 **BUILDING INFORMATION**

The Library building was originally constructed in 1949; a 1978 addition extended the building to the south. During this addition, the 1949 building was also renovated; after the 2000 flood the basement of the 1949 and 1978 buildings were partially renovated.

The Library building is a three-story, 102,933 ft² building which primarily serves as classroom and office areas for library personnel.

The interior floor finishes included carpet, ceramic tile, floor tile, and concrete; the interior wall finishes included gypsum wallboard, marble, plaster, wood, brick, concrete block, and concrete; and the interior ceiling finishes included ceiling tile, plaster, and concrete. 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), aircell insulation (with hard fittings), and millboard insulation (with hard fittings) are located throughout the building. Steam enters the building in room 22 and domestic water enters the building in room 20A. HVAC systems located in the building consisted of steam radiators, steam unit heaters, and forced air furnaces equipped with heating/cooling coils.

2.0 **ASBESTOS SURVEY INFORMATION**

The Library building 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 168 samples were collected from suspect asbestos-containing materials (ACM) from the Library building on August 31, 2007 and an additional 5 samples were collected on May 14, 2008. Laboratory analysis results indicate **37 of these samples tested positive for asbestos**.

2.1 Suspect Materials Identified and Sampled

Plaster- Monocoat

Joint Compound (3 types) Ceiling Texture (3 types)

Linoleum

Floor Tile (9 types)

Stair Tread Material (2 types)
Sink Undercoating (2 types)

Pyrobar

Baseboard Adhesive (4 types)
Rainleader Bowl Insulation

Encapsulant on Fiberglass Insulation (3 types)

Hard Fitting on Aircell Insulation
Hard Pack on Millboard Insulation
Hard Fitting on Millboard Insulation
Hard Pack on Fiberglass Insulation

Window Caulk (2 types)

Gypsum Wallboard (3 types)

Wall Texture

Ceiling Tile (11 types)

Underlayment Paper for Linoleum

Floor Tile Mastic (9 types) Stair Tread Adhesive (2 types)

Floor Filler Material
Tank Insulation (2 types)
Carpet Mastic (5 types)

Hard Fitting on Fiberglass Insulation

Aircell Pipe Insulation
Millboard Pipe Insulation
Hard Pack on Aircell Insulation

HVAC Canvas Wrap

Black AHU Putty (3 types)
Gray HVAC Duct Caulk (3 types)

Penetration Putty (2 types)
Exterior Window Glazing

Exterior Window Glazing on Door (2 types)

Exterior Door Caulk

Exterior Building Seam Caulk (3 types)

HVAC Canvas Connector (2 types)

Exterior Air Vent Caulk

Exterior Penetration Putty (2 types)
Exterior Window Caulk (2 types)

Foundation Tar Coating

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 <u>Asbestos Containing Materials</u>

Soft Ceiling Plaster (above texture)

2'x4' Off-White Ceiling Tile with Widthwise Fissures and Pinholes

Mastic for 12" White Floor Tile with Red and Green Marks

Mastic for 12" Tan/ Brown Floor Tile

12" Red Floor Tile

12"x18" Black Perimeter Floor Tile

Mastic for 12" Gray/Brown Mottled Floor Tile

Pink Sink Undercoating

Aircell Pipe Insulation

Hard Fitting on Aircell Insulation

Hard Pack on Aircell Insulation

Millboard Pipe Insulation

Hard Fitting on Millboard Insulation

Hard Pack on Millboard Insulation

Encapsulant on Fiberglass Insulation

Black AHU Putty

Gray HVAC Duct Caulk

Penetration Putty (around wire into VAV box)

Window Glazing

Exterior Air Vent Caulk

Exterior Penetration Putty (on sensors)

Exterior Door Caulk

Exterior Window Glazing on Door (1 type)

Exterior Foundation Tar Coating

Exterior Window Caulk (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 Library as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Floor Tile and/or Mastic	2,429 ft ²	\$4.00/ft ²	\$9,716.00
Asbestos Sink Undercoating	3 ea	\$150.00/ea	\$450.00
Asbestos Foundation Tar Coating	164 ft	\$10.00/ft	\$1,640.00
Asbestos Window Glazing (all types)	7 ea	\$225.00/ea	\$1,575.00

Asbestos Window Caulk	74 ea	\$125.00/ea.	\$9,250.00
Asbestos Window Glazing on Door	1 ea	\$225.00/ea	\$225.00
Asbestos Encapsulant on Fiberglass Insulation	50 ft	\$60.00/ ft	\$3,000.00
Asbestos Aircell Pipe Insulation	218 ft	\$25.00/ft	\$5,450.00
Asbestos Hard Fittings on Aircell Insulation	22 ea	\$25.00/ea	\$550.00
Asbestos Millboard Pipe Insulation	405 ft	\$25.00/ft	\$10,125.00
Asbestos Hard Fittings on Millboard Insulation	15 ea	\$25.00/ea	\$375.00
Asbestos Penetration Putty (all types)	22 ea	\$60.00/ea	\$1,320.00
Asbestos Ceiling Tile	327 ft ²	\$5.00/ft ²	\$1,635.00
Asbestos Ceiling Plaster	719 ft ²	\$7.50/ft ²	\$5,392.50
Asbestos Air Vent Caulk	2 ea	\$125.00/ea	\$250.00
Asbestos Door Caulk	2 ea	\$125.00/ea	\$250.00
Asbestos AHU Putty	1 ea	\$1,000.00/ea	\$1,000.00
Asbestos HVAC Duct Caulk	3 ea	\$60.00/ea	\$180.00
Total Estimated Abater	\$52,383.50		

2.4 **Survey Notes**

LEGEND identified and sampled 2 separate types (homogeneous areas) of Exterior Window Caulk; from the 1949 building and from the 1978 building. The exterior window caulk on the 1949 building tested positive for asbestos; the exterior window caulk on the 1978 building tested negative for asbestos.

LEGEND identified and sampled Black AHU Putty from 3 separate types (homogeneous areas) of AHUs: a medium-sized AHU in room 20A; a small-sized AHU in room 100; and a large- sized AHU in room 302. The black AHU putty on the large-size AHU in the southeast corner of room 302 tested positive for asbestos, only.

LEGEND identified and sampled 3 separate types (homogeneous areas) of Encapsulant on Fiberglass Insulation; from the 1978 renovation/addition (in the 1949 and 1978 buildings), from the renovations after the 2000 flood (in the basement of the 1949 building), and from an unknown renovation (in the north end of 2nd floor). The encapsulant on fiberglass insulation from the 1978 renovation/addition (in the 1949 and 1978 buildings) tested positive for asbestos, only.

LEGEND identified and collected a sample of hard pack on aircell insulation (on valves and hangars); the samples tested positive for asbestos (samples #130/131). LEGEND did not quantify the hard pack on aircell insulation; the material can only be abated by abating the aircell pipe insulation and should therefore have no individual costs.

LEGEND identified and collected a sample of hard pack on millboard insulation (on hangars); the sample tested positive for asbestos (sample #135). LEGEND did not quantify the hard pack on millboard insulation; the material can only be abated by abating the millboard pipe insulation and should therefore have no individual costs.

LEGEND identified and collected samples of Mastic for 12" White Floor Tile with Green Marks (installed during the renovations after the 2000 flood) from room 20E and room 14D. LEGEND

noted residual black mastic mixed with the new tan mastic in room 20E and only the new tan mastic in room 14D; the residual black mastic mix in room 20E tested positive for asbestos. NDSU records indicate the residual black mastic from previous flooring should have been abated from room 20E. LEGEND recommends assuming the residual black mastic mix is throughout room 20E until a destructive survey can be performed to verify the extent of the material.

LEGEND identified and sampled a Penetration Putty from above the ceiling in room 130 (using an access panel by room 130B. The penetration putty is on a variable air volume (VAV) box supplying air to room 130B. An electric wire passes through the side of the box and a small amount of putty was used to seal around this penetration; this material is the ACM Penetration Putty.

LEGEND identified and sampled 3 separate types (homogeneous areas) of Gray HVAC Duct Caulk from; room 6, hallway 88, and room 100. The gray HVAC duct caulk in room 6 tested positive for asbestos, only; this gray HVAC duct caulk is only in room 6.

LEGEND identified 3 separate types (homogeneous areas) of floor tile in room 120; a 12" Red Floor Tile and 12"x18" Black Perimeter Floor Tile from the north end of the room and an Unknown White/Gray Floor Tile from the south end of the room. The 2 floor tiles in the north end of the room tested positive for asbestos and the unknown floor tile in the south end of the room tested negative for asbestos. LEGEND was unable to determine the extent of the 2 ACM floor tiles below the carpet; a destructive survey should be performed in the future prior to renovation/demolition to verify the extent and quantities of the 2 ACM floor tiles.

LEGEND identified and sampled a Soft Ceiling Plaster above the popcorn ceiling texture in the central stairway and above ceiling tile and popcorn ceiling texture in hallway 188, room 201, room 201A, room 201B, and hallway 288. This layer of Soft Ceiling Plaster tested positive for asbestos.

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

	1						
ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 5 € E E E E E E E E E E E E E E E E E	ASSESS.	NOTES
Room 6 Now 6A							
Gray HVAC Duct Caulk	10% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos caulk is above the ceiling tile on a duct leading to a vent through the ceiling tile; it is on the east end of the room.
Room 14A							
Encapsulant on Fiberglass Insulation	3-5% Chrysotile	1 ft	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos encapsulant on fiberglass insulation is above the ceiling tile along the west end of the room.
Room 16							
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile on the east end of the room.
Encapsulant on Fiberglass Insulation	3-5% Chrysotile	1 ft	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos encapsulant on fiberglass insulation is above the ceiling tile along the west end, adjacent to room 16J.
Room 18							
Penetration Putty (around wire into VAV box)	10% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the 2 VAV boxes above the ceiling tile on the west end of the room.
Room 18A			1	1	•	1	
Mastic for 12" Tan/Brown Floor Tile	3% Chrysotile	48 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The mastic for 12" floor tile contains asbestos; the floor tile is negative.
Room 18F		I	1	1	1	1	1
Mastic for 12" Tan/Brown Floor Tile	3% Chrysotile	202 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The mastic for 12" floor tile contains asbestos; the floor tile is negative.

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	HIGH MOD	ASSESS. CAT. ¹	NOTES
Room 20C Now 20I	02							
Aircell Pipe Insulation		2 ft	Friable TSI	Damaged	Physical Air Erosion Vibration		1	The asbestos aircell insulation is on the east end of the room where the pipes pass through the wall from room 22.
Room 20E Now 20F	=							
Mastic for 12" White Floor Tile with Red and Green Marks	3% Chrysotile	67 ft²	Non-friable Miscellaneous	N/A*	N/A3	k	N/A*	The mastic for 12" floor tile contains asbestos; the floor tile is negative; see note in section 2.4.
Room 22								
Aircell Pipe Insulation	50% Chrysotile	213 ft	Friable TSI	Damaged	Physical Air Erosion Vibration		1	The asbestos aircell insulation is on the west end of the room.
Hard Fittings on Aircell Insulation	40% Chrysotile	22 fittings	Friable TSI	Damaged	Physical Air Erosion Vibration		1	None
Millboard Pipe Insulation	40% Chrysotile	405 ft	Friable TSI	Significantly Damaged	Physical Air Erosion Vibration		1	The asbestos millboard insulation is on the west and south ends of the room.
Hard Fittings on Millboard Insulation	40% Chrysotile	15 fittings	Friable TSI	Significantly Damaged	Physical Air Erosion Vibration		1	None
Encapsulant on Fiberglass Insulation	3-5% Chrysotile	11 ft	Non-friable Miscellaneous	N/A*	N/A	k	N/A*	The asbestos encapsulant on fiberglass insulation is along the south end of the room; primarily at the ceiling level.
Stairway 77S2		•	•	•	•		•	•
9" Floor Tile and Mastic	Assumed	20 ft²	Non-friable Miscellaneous	N/A*	N/A	*	N/A*	The 9" floor tile and mastic are assumed ACMs.

^{* =} Non-Friable materials were not assessed

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

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE OF SOFT	ASSESS. CAT. ¹	NOTES
Stairway 77S3							
9" Floor Tile and Mastic	Assumed	20 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Hallway 88							
Aircell Pipe Insulation	50% Chrysotile	1 ft	Friable TSI	Good	Physical □□□ Air Erosion □□□ Vibration □□□	7	The asbestos aircell insulation is above the ceiling tile adjacent to room 10 on a pipe passing through the concrete ceiling.
Encapsulant on Fiberglass Insulation	3-5% Chrysotile	1 ft	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos encapsulant on fiberglass insulation is above the ceiling tile adjacent to room 12A.
Room 100		•					
Aircell Pipe Insulation	50% Chrysotile	1 ft	Friable TSI	Damaged	Physical □□■ Air Erosion □□■ Vibration □□■	1	The asbestos aircell insulation is on the west end of the room at the ceiling level on a pipe passing through the room.
Room 101		•					
9" Floor Tile and Mastic	Assumed	70 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 105 Abated	Feb 2013		l				
9" Floor Tile and Mastic	Assumed	25 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 108A			1	<u> </u>			1
Mastic for 12" Tan/Brown Floor Tile	3% Chrysotile	86 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The mastic for 12" floor tile contains asbestos; the floor tile is negative.
* - Nan Friable meeter							Dags 2 of 11

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 5 5 5 F POTENTIAL	ASSESS. CAT. ¹	NOTES
Room 108B							
Mastic for 12" Tan/Brown Floor Tile	3% Chrysotile	57 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The mastic for 12" floor tile contains asbestos; the floor tile is negative.
Pink Sink Undercoating	10% Chrysotile	1 sink	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos undercoating is on a sink along the west wall.
Room 114	l		1	1	ı	I	
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile on the south end of the room.
Room 114B		·		•			
Window Glazing	15% Chrysotile	1 window	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos glazing is on the window along the west wall.
Room 114C				1			<u> </u>
Window Glazing	15% Chrysotile	1 window	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos glazing is on the window along the west wall.
Room 114D			l			<u> </u>	
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile on the east end of the room.
Room 118							
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile south of room 118C.
* - Non Eriable mater	rials wars not assess		L	1			Page 4 of 11

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 5 5 5 F POTENTIAL	ASSESS.	NOTES
Room 118A							
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile on the east end of the room.
Room 118B							
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile on the south end of the room.
Room 118C							
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile on the north end of the room.
Room 118E	- 1		1	1		1	
Penetration Putty (around wire into VAV box)	10% Chrysotile	4 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the 4 VAV boxes above the ceiling tile in the room.
Room 118F					1		
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile on the east end of the room.
Room 118G	1	'	•	•	•	1	.1
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile in the middle of the room.
	1				1		

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 5 5 5 F	ASSESS. CAT. ¹	NOTES
Room 120 and 120	120 C Por	tion Abated	May 2015		Abated November	2023	Now 122
12" Red Floor Tile	5% Chrysotile	287 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 12" floor tile contains asbestos; the floor tile mastic is negative (under carpet).
12"x18" Black Perimeter Floor Tile	5% Chrysotile	334 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 12"x18" floor tile contains asbestos; the floor tile mastic is negative (under carpet).
Room 120A Now 12	22G						
9" Floor Tile and Mastic	Assumed	382 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Encapsulant on Fiberglass Insulation	3-5% Chrysotile	2 ft	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos encapsulant on fiberglass insulation is above the ceiling tile along the east end of the room.
Room 120B Now 12	22H						
9" Floor Tile and Mastic	Assumed	48 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 120C Now 1	22H			1			
Pink Sink Undercoating	10% Chrysotile	1 sink	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos undercoating is on a sink along the south wall.
Room 130 Now 130	0B and 130D	•	1		•	-1	
Penetration Putty (around wire into VAV box)	10% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the 2 VAV boxes above the ceiling tile; there is one VAV boxes adjacent to each access panel.

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	HIGH MOD	ASSESS.	NOTES
Room 130A								
12" Red Floor Tile Abated	5% Chrysotile May 2015	287 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile contains asbestos; the floor tile mastic is negative (only the southeast corner is not under carpet).
12"x18" Black Perimeter Floor Tile	5% Chrysotile bated May 2015	40 ft ²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 12"x18" floor tile contains asbestos; the floor tile mastic is negative (only the southeast corner is not under carpet).
Pink Sink Undercoating	10% Chrysotile Abated May 20	1 sink 15	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos undercoating is on a sink in the northwest corner.
2'x4' Ceiling Tile with Widthwise Fissures and Pinholes	3% Amosite Abated May 2015	327 ft ²	Friable Surfacing	Good	Physical Air Erosion Vibration		6	None
Stairway 177S2								
9" Floor Tile and Mastic	Assumed	55 ft²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Stairway 177S3 Aba	ated May 2015		1					
9" Floor Tile and Mastic	Assumed	55 ft²	Non-friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
Hallway 188			<u>l</u>	<u> </u>				
Soft Ceiling Plaster (above texture)	3% Chrysotile	96 ft²	Friable Surfacing	Good	Air Erosion		7	The asbestos plaster is above the popcorn ceiling texture and the ceiling tile adjacent to room 101.
Aircell Pipe Insulation	50% Chrysotile	1 ft	Friable TSI	Damaged	Physical Air Erosion Vibration		1	The asbestos aircell insulation is above the ceiling tile adjacent to room 100; it is on the same pipe as in room 100.

^{* =} Non-Friable materials were not assessed

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

							·
ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 5 S H S POTENTIAL S S S H S S S S S S S S S S S S S S S	ASSESS. CAT. ¹	NOTES
Hallway 188D							
Mastic for 12" Gray/Brown Mottled Floor Tile	10% Chrysotile	31 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The mastic for 12" floor tile contains asbestos; the floor tile is negative.
				1			<u> </u>
Hallway 188E Mastic for 12" Gray/Brown Mottled Floor Tile	10% Chrysotile	31 ft ²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The mastic for 12" floor tile contains asbestos; the floor tile is negative.
Room 199W1							
9" Floor Tile and Mastic	Assumed	66 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 200A							1
9" Floor Tile and Mastic	Assumed	12 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 201							<u> </u>
Soft Ceiling Plaster (above texture)	3% Chrysotile	40 ft ²	Friable Surfacing	Significantly Damaged	Physical □□□ Air Erosion □□□ Vibration □□□	3	The asbestos plaster is above the popcorn ceiling texture and the ceiling tile on the south end of the room, only.
Room 201B		·	•	•		•	
Soft Ceiling Plaster (above texture)	3% Chrysotile	20 ft ²	Friable Surfacing	Significantly Damaged	Physical □ ■□ Air Erosion □ ■□ Vibration □ ■□	3	The asbestos acoustic plaster is above the popcorn ceiling texture and the ceiling tile on the south end of the room, only.

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 5 € 5 E F POTENTIAL	ASSESS. CAT. ¹	NOTES
Room 205 Abated	March 2013						
9" Floor Tile and Mastic	Assumed	25 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
Room 211				•			
12" Red Floor Tile	5% Chrysotile	63 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 12" floor tile contains asbestos; the floor tile mastic is negative.
Room 214		1	1	1	1	1	,
Penetration Putty (around wire into VAV box)	10% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the VAV box above the ceiling tile in the east end of the room.
Room 214A						•	
Window Glazing	15% Chrysotile	4 windows	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos glazing is on the windows along the west wall.
Room 218							
Penetration Putty (around wire into VAV box)	10% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the 2 VAV boxes above the ceiling tile in the west end of the room.
Encapsulant on Fiberglass Insulation	3-5% Chrysotile	4 ft	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos encapsulant on fiberglass insulation is above the ceiling tile south of rooms 214B and 214C.
Room 220A	1	-		1	•	ı	,
9" Floor Tile and Mastic	Assumed	16 ft²	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The 9" floor tile and mastic are assumed ACMs.
* - Non Eriable mate	 		1				Page 9 of 11

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	HIGH	ASSESS. CAT. ¹	NOTES
Stairway 277S2								
9" Floor Tile and Mastic	Assumed	51 ft²	Non-friable Miscellaneous	N/A*	N/A*	:	N/A*	The 9" floor tile and mastic are assumed ACMs.
Stairway 277S3				1				
9" Floor Tile and Mastic	Assumed	51 ft²	Non-friable Miscellaneous	N/A*	N/A*	•	N/A*	The 9" floor tile and mastic are assumed ACMs.
Hallway 288				1				
Soft Ceiling Plaster (above texture)	3% Chrysotile	165 ft²	Friable Surfacing	Significantly Damaged	Physical Air Erosion Vibration		3	The asbestos plaster is above the popcorn ceiling texture and the ceiling tile adjacent to rooms 201 and 201B.
Room 301								
Encapsulant on Fiberglass Insulation	3-5% Chrysotile	30 ft	Non-friable Miscellaneous	N/A*	N/A*	:	N/A*	The asbestos encapsulant on fiberglass insulation is throughout the room.
Black AHU Putty	5% Chrysotile	1 ea	Non-friable Miscellaneous	N/A*	N/A*	:	N/A*	The asbestos black AHU putty is on the air handler unit on the east end of the room.
Center Stairway (1st-	2 nd floor)			<u> </u>				
Soft Ceiling Plaster (above texture)	3% Chrysotile	398 ft²	Friable Surfacing	Good	Physical Air Erosion Vibration		6	The asbestos acoustic plaster is above the popcorn ceiling texture in the stairway.
Exterior								
Air Vent Caulk	5% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*	:	N/A*	The asbestos caulk is around an air vents on the east and south sides of room 302 (on roof).
* Non Friedle meste	rials were not assess							Page 10 of 11

^{* =} Non-Friable materials were not assessed

ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE 5 5 5 F F POTENTIAL	ASSESS. CAT. ¹	NOTES
Penetration Putty (on sensors)	5% Chrysotile	3 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos penetration putty is on the north side of room 302 (on roof).
Door Caulk	5% Chrysotile	2 ea	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos caulk is on the doors on the east side of stairway 377S3 and the south side of room 302 (on roof).
Window Glazing	5% Chrysotile	1 window	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos glazing is on the window on the south side of room 302 (on roof).
Window Glazing on Door	5% Chrysotile	1 door	Non-friable Miscellaneous	N/A*	N/A*	N/A*	The asbestos glazing is on a door window on the east side of stairway 377S3 (on roof); it is the older bottom layer of glazing).
Window Caulk	10% Chrysotile	74 windows	Non-friable Miscellaneous	N/A*	N/A*	N/A*	Refer to ACM Locations Map for further information.
Foundation Tar Coating	10% Chrysotile	164 ft	Non-friable Miscellaneous	N/A*	N/A*	N/A*	Refer to ACM Locations Map for further information.

- 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