

NARRATIVE REPORT

1.0 BUILDING INFORMATION

Lord & Burnham Greenhouse North was originally constructed in 1950 and included 1 greenhouse range; a 1951 addition extended the building to the west adding 1 greenhouse range, a 1953 addition extended the building further to the west adding 1 greenhouse range, a 1956 addition extended the building further to the west adding 2 greenhouse ranges, and a 1996 addition extended the building further to the west adding 1 greenhouse range. Although specific dates are not available, several, small renovations are evident.

Lord & Burnham Greenhouse North is a single-story, 25,000 ft² (approx.) building which primarily serves as office areas and work areas for agricultural personnel.

The interior floor finishes included floor tile, wood, and concrete; the interior wall finishes included wood, ceramic block, brick, gypsum wallboard, and glass; and the interior ceiling finishes included ceiling tiles, transite ceiling panels, wood, and glass. The roofing system is a peaked asphalt shingled roof for the north section of the building and glass sheets for the greenhouse ranges; the exterior of the structure is brick for the north section of the building and glass sheets for the greenhouse ranges.

The piping systems were insulated; fiberglass insulation (both with and without hard fittings), millboard insulation (with hard fittings), mag block insulation (without hard fittings), and aircell insulation (with hard fittings) are located in the building. Steam enters the building via a tunnel into room 10A1 and domestic water enters the building via a tunnel into room 10. An autoclave is located in room 30 with hard insulation. HVAC systems located in the building consisted of steam unit heaters and steam radiators.

2.0 ASBESTOS SURVEY INFORMATION

Lord & Burnham Greenhouse North was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 3" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 3" for methodologies, definitions, and other pertinent supporting information.

A total of 54 samples were collected from suspect asbestos-containing materials (ACM) from Lord & Burnham Greenhouse North on October 16, 2007, an additional 13 samplers were collected on January 10, 2008, and an additional 1 sample was collected on January 29, 2008. Laboratory analysis results indicate **39 of these samples tested positive for asbestos.**

2.1 Suspect Materials Identified and Sampled

Autoclave Insulation	Window Glazing (9 types)
Window Caulk (2 types)	Encapsulant on Fiberglass Insulation
Hard Fittings on Fiberglass Hnsulation	Ceiling Tile (2 types)
Floor Tile	Floor Tile Mastic
Transite Ceiling Tiles	Aircell Pipe Insulation
Hard Fittings on Aircell Insulation	Buffalo Board
Linoleum	Underlayment Paper for Linoleum
Black Lab Countertop	Mag Block Pipe Insulation
Transite Panels (workbenches)	Concrete Pillar Coating (workbenches)

Concrete Wall Coating
 Gypsum Wallboard
 Door Caulk (4 types)
 Exterior Dorr Caulk (2 types)
 Exterior Window Glazing
 Asphalt Shingle (2 types)
 Roof Flashing
 Millboard Pipe Insulation
 Tarpaper (under gables)

Glue Pucks (residual) (2 types)
 Joint Compound
 Building Seam caulk
 Exterior Window Caulk (3 types)
 Exterior Building Seam Caulk (3 types)
 Roof Tarpaper
 Window Glazing on Door (4 types)
 Hard Fitting on Millboard Insulation

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 Asbestos Containing Materials

Autoclave Insulation
 Window Glazing (6 types)
 Window Caulk (2 types)
 Hard Fittings on Millboard Insulation
 Hard Fittings on Fiberglass Insulation
 Transite Ceiling Panels
 Aircell Pipe Insulation
 Hard Fittings on Aircell Pipe Insulation
 Black Lab Countertop
 Mag Block Pipe Insulation
 Transite Panels (workbenches)
 Concrete Pillar Coating (workbenches)
 Glue Pucks (residual) (1 type)
 Door Caulk (4 types)
 Building Seam Caulk (1 type)
 Exterior Window Caulk (2 types)
 Exterior Window Glazing (1 type)
 Exterior Building Seam Caulk (3 types)
 Millboard Pipe Insulation
 Window Glazing on Door (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 Lord & Burnham Greenhouse North as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Autoclave Insulation	96 ft ²	\$25.00/ft ²	\$2,400.00
Asbestos Window Glazing (all types)	9 ea	\$225.00/ea	\$2,025.00
Asbestos Window Caulk (all types)	14 ea	\$125.00/ea	\$1,750.00
Asbestos Hard Fittings on Millboard Insulation	2 ea	\$25.00/ea	\$50.00

Asbestos Hard Fitting on Fiberglass Insulation	5 ea	\$60.00/ea	\$300.00
Asbestos Transite Ceiling Panels	612 ft ²	\$5.00/ft ²	\$3,060.00
Asbestos Aircell Insulation	631 ft	\$25.00/ft	\$15,775.00
Asbestos Hard Fittings on Aircell Insulation	18 ea	\$25.00/ea	\$450.00
Asbestos Black Lab Countertop	1 ea	\$350.00/ea	\$350.00
Asbestos Mag Block Pipe Insulation	31 ft	\$25.00/ft	\$775.00
Asbestos Transite Panels (workbenches)	36 ea	\$150.00/ea	\$5,400.00
Asbestos Concrete Pillar Coating (workbenches)	112 ea	\$150.00/ea	\$16,800.00
Asbestos Glue Pucks (residual)	80 ft ²	\$5.00/ft ²	\$400.00
Asbestos Door caulk (all types)	10 ea	\$125.00/ea	\$1,250.00
Asbestos Building Seam Caulk	72 ft	\$4.00/ft	\$288.00
Asbestos Millboard Pipe Insulation	25 ea	\$25.00/ft	\$625.00
Asbestos Greenhouse Window Glazing (all types)	2,573 ea	\$25.00/ea	\$64,325.00
Asbestos Floor Tile and Mastic	859 ft ²	\$4.00/ft ²	\$3,436.00
Total Estimated Abatement Costs:			\$119,460.00

2.4 Survey Notes

Lord & Burnham Greenhouse North was constructed in several different years (refer to section 1.0 for dates of construction), with greenhouse ranges and adjacent building section being added in different years; each construction section was considered an independent homogeneous area. During the building survey, each suspect material was sampled in each separate homogeneous area. Therefore, materials that may seem identical throughout building will vary from ACM to non-ACM in different homogenous areas as indicated by the asbestos bulk sample results.

LEGEND observed a large quantity of transite panels (workbenches) in the greenhouses. Some of these transite panels are not building materials and were not quantified by LEGEND during the asbestos survey. LEGEND sampled these materials during the survey (samples #22/#23), a review of the results indicate these transite panels (workbenches) contain asbestos.

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

LEGEND No. 0700048 (NDSU)
LORD & BURNHAM GREENHOUSE NORTH (BUILDING A029N)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
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Room 10 Now 132

Aircell Pipe Insulation	40% Chrysotile	48 ft	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The aircell pipe insulation is on a pipe run along the south wall.
Hard Fittings on Aircell Insulation	2-3% Chrysotile 10% Amosite	1 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None.
Hard Fittings on Fiberglass Insulation	5% Chrysotile	5 fittings	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The hard fittings on fiberglass insulation run along the southeast corner in room 10.
Window Glazing	3% Chrysotile	4 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window glazing is on the south and east windows in room 10.
Transite Ceiling Panels	15% Chrysotile	220 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite ceiling panels are on the north side of room 10.

Room 10A Now 132A

Aircell Pipe Insulation	40% Chrysotile	12 ft	Friable TSI	Good	Physical	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The aircell pipe insulation is on a pipe run along the north 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 10C Now 132C

Aircell Pipe Insulation	40% Chrysotile	6 ft	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The aircell pipe insulation is on a pipe run along the east wall.
Window Glazing	3% Chrysotile	1 window	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window glazing is on a window on the east side.

* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

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LORD & BURNHAM GREENHOUSE NORTH (BUILDING A029N)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
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Rooms 11A-14B (Greenhouse Range 1) Now 134-140

Aircell Pipe Insulation	40% Chrysotile	36 ft	Friable TSI	Damaged	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		1	The aircell pipe insulation is on the north wall in rooms 11A and 11B.
Greenhouse Window Glazing	3% Chrysotile	502 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The greenhouse window glazing is on the interior windows dividing greenhouse rooms and all east and west exterior windows in range 1.
Window Caulk	3% Chrysotile	2 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window caulk is on the north windows in rooms 11A and 11B.
Door Caulk	5% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos door caulk is on the north door in rooms 11A and 11B.

Room 20 Now 122

Aircell Pipe Insulation	40% Chrysotile	98 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The aircell pipe insulation is on pipe runs along the south wall in room 20.
Hard Fittings on Aircell Insulation	2-3% Chrysotile 10% Amosite	1 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None.
Millboard Pipe Insulation	20% Chrysotile	21 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The millboard pipe insulation is on a pipe along the southeast corner of room 20 and runs into room 20B.
Hard Fittings on Millboard Insulation	5% Chrysotile	2 ea	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None.
Door Caulk	5% Chrysotile	3 doors	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos door caulk is on the south door (to range 2), south end east door (to room 10), and south end west door (to room 30).

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
LORD & BURNHAM GREENHOUSE NORTH (BUILDING A029N)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
Building Seam Caulk	3% Chrysotile	18 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos building seam caulk is on the southeast corner of the room and to the north of the door to room 10.

Room 20D Now 122B

Black Lab Countertop	15% Chrysotile	1 ea.	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos black lab countertop is in the northwest corner of the room.
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Rooms 21A-24B (Greenhouse Range 2) Now 124-130

Mag Block Insulation	30% Chrysotile 5% Amosite	31 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	The mag block insulation is on a pipe along the north wall of rooms 21A and 21B.
Coating on Concrete Pillars	15% Chrysotile	48 pillars	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos coating is on the concrete pillars supporting the workbenches in rooms 21A and 21B; 24 pillars (36 ft ²) per room.
Transite Panels (workbenches)	15% Chrysotile 5% Amosite	4 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos transite panels are being used as workbenches in rooms 21A and 21B. (approx: 5'x14' ea)
Greenhouse Window Glazing	3% Chrysotile	288 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The greenhouse window glazing is on the interior windows dividing the greenhouse rooms.
Door Caulk	5% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos door caulk is on the north door in rooms 21A and 21B.

Room 30 Now 112

Aircell Pipe Insulation	40% Chrysotile	106 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	The aircell pipe insulation is on pipes that run along the south wall, into room 30B, and along the north exterior door.
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* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
LORD & BURNHAM GREENHOUSE NORTH (BUILDING A029N)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
Hard Fittings on Aircell Insulation	2-3% Chrysotile 10% Amosite	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	None.
Autoclave Insulation	30% Chrysotile	96 ft ²	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The autoclave insulation is in the southwest corner of room 30.
Window Glazing	3% Chrysotile	2 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window glazing is on the south windows in room 30.
Window Caulk	3% Chrysotile	2 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window caulk is on the south windows in room 30.
Door Caulk	3% Chrysotile	3 doors	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos door caulk is on the south door (to range 3), south end east door (to room 20), and south end west door (to room 40).

Room 30A Abated January 2008 Now 112C

9" Floor Tile and Mastic	Assumed	289 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 30B Now 112B

Aircell Pipe Insulation	40% Chrysotile	24 ft	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	The aircell pipe insulation is on a pipe run along the north and east walls.
Hard Fittings on Aircell Insulation	2-3% Chrysotile 10% Amosite	4 fittings	Friable TSI	Good	Physical Air Erosion Vibration	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	6	None.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
LORD & BURNHAM GREENHOUSE NORTH (BUILDING A029N)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. ¹	NOTES
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Room 30C Now 112A

Window Glazing	3% Chrysotile	1 window	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window glazing is on the north window.
Window Caulk	3% Chrysotile	1 window	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window caulk is on the north window.

Rooms 31A-34B (Range 3) Now 114-120

Aircell Pipe Insulation	40% Chrysotile	64 ft	Friable TSI	Damaged	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		1	The aircell pipe insulation is on pipe runs in the northwest corners (31B, 31C, 32B, 32C, 33B, 34B) and northeast corners (31A, 32A 33A, 34A).
Coating on Concrete Pillars	15% Chrysotile	64 pillars	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	Asbestos coating is on the concrete pillar supporting the workbenches in rooms 31B, 31C, 32B, and 32C. 16 pillars (48 ft ²) in each room.
Transite Panels (workbenches)	15% Chrysotile 5% Amosite	8 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos transite panels are being used as workbenches in rooms 31B, 31C, 32B, and 32C. (approx: 5'x14' ea)
Greenhouse Window Glazing	3% Chrysotile	606 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The greenhouse window glazing is on the interior windows dividing the greenhouse rooms.
Window Caulk	3% Chrysotile	2 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos window caulk is on the north windows in rooms 31A and 31B.

Room 40 Now 108

Aircell Pipe Insulation	40% Chrysotile	96 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	The aircell pipe insulation is on a pipe run along the south wall.
Hard Fittings on Aircell Insulation	2-3% Chrysotile 10% Amosite	2 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	None.

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
LORD & BURNHAM GREENHOUSE NORTH (BUILDING A029N)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. ¹	NOTES
Door Caulk	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos door caulk is on the east door to room 30

Room 40A Now 108F

Aircell Pipe Insulation	40% Chrysotile	4 ft	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	The aircell pipe insulation is on a pipe run along the northwest corner of room 40A.
Hard Fittings on Aircell Insulation	2-3% Chrysotile 10% Amosite	1 fitting	Friable TSI	Good	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6	None.
9" Floor Tile and Mastic	Assumed	285 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic were assumed to be ACMs.

Room 40B Now 108E

9" Floor Tile and Mastic	Assumed	285 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 40D Now 108C

Black Glue Pucks (residual)	5% Chrysotile	80 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The residual black puck glue is on the north and east walls in room 40D.
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Rooms 41A-44B (Range 4) Now 108A-110E

Aircell Pipe Insulation	40% Chrysotile	31 ft	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	The aircell pipe insulation is on pipe runs along the northeast corners (42A, 42C, 43A, 43C) and northwest corners (42B, 42D, 43B, 43D, 44A).
Aircell Pipe Insulation	40% Chrysotile	12 ft	Friable TSI	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1	The aircell pipe insulation is on pipe run on the southeast corner of room 44B.

* = 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	ASSES. CAT. ¹	NOTES
Transite Panels (workbenches)	15% Chrysotile 5% Amosite	24 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos transite panels are being used as workbenches in rooms 42A, 42B, 42C, 42D, 43A, 43B, 43C, 43D. (approx: 5'x14' ea)
Greenhouse Window Glazing	3% Chrysotile	731 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The greenhouse window glazing is on the interior windows dividing the greenhouse rooms.
Greenhouse Window Glazing on Doors	5% Chrysotile	18 doors	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The greenhouse window glazing on doors is on the interior doors dividing the greenhouse rooms.

Room 50 Now 104

Aircell Pipe Insulation	40% Chrysotile	33 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	The aircell pipe insulation is on pipe runs along the south wall east end, southeast end into room 50A, and north wall east end.
Hard Fittings on Aircell Insulation	2-3% Chrysotile 10% Amosite	1 fitting	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	None.
Transite Ceiling Panels	15% Chrysotile	392 ft ²	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The transite ceiling panels are on the west side of this room.

Room 50C Now 102

Aircell Pipe Insulation	40% Chrysotile	19 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	The aircell pipe insulation is on a pipe run along the south and west wall.
Hard Fittings on Aircell Insulation	2-3% Chrysotile 10% Amosite	2 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	None.

* = Non-Friable materials were not assessed

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

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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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Rooms 51A-54B (Range 5) Now 106-106B1A

Aircell Pipe Insulation	40% Chrysotile	42 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	ACM insulation; northeast corners of (52A, 53A), northwest corners of (51B, 52B, 53B), southwest corner of (54A), and southeast corner of (54B).
Hard Fittings on Aircell Insulation	2-3% Chrysotile 10% Amosite	2 fittings	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		6	None.
Greenhouse Window Glazing	3% Chrysotile	428 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The greenhouse window glazing is on the interior windows dividing the greenhouse rooms.
Door Caulk	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos door caulk is on the north door of room 51B.

Room 55 Now 188

Door Caulk	3% Chrysotile	1 door	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos door caulk is on the east door to room 50C.
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Exterior

Window Caulk	5% Chrysotile	7 windows	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	ACM exterior window caulk; north windows (rooms 30C, 40A, 40B, 50A), east windows (rooms 10, 10C), and west window (room 50C).
Window Glazing	3% Chrysotile	1 window	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The exterior window glazing is on the north window from room 30C.
Building Seam Caulk	3% Chrysotile	54 ft	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos building seam caulk is on the north and south exterior walls b/n rooms (10 & 20, 20 & 30, 30 & 40).

* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)
 LORD & BURNHAM GREENHOUSE NORTH (BUILDING A029N)

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

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|---|---|
| 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