

# NARRATIVE REPORT

## 1.0 BUILDING INFORMATION

The University Village 16 Plex #1 was originally constructed in 1982; the building has had no major renovations.

The University Village 16 Plex #2 is a two-story, 14,380 ft<sup>2</sup> building which primarily serves as dormitory areas for students.

The interior floor finishes included linoleum, carpet, and concrete; the interior wall finishes included gypsum wallboard and wood; and the interior ceiling finishes included ceiling tile and gypsum wallboard. The roofing system is a peaked asphalt-shingled roof and the exterior of the structure is stucco, brick, and vinyl.

The piping systems were insulated; fiberglass insulation (without hard fittings) is located throughout the building. Domestic water enters the building in the laundry room; one small natural gas boiler is located in the mechanical room. HVAC systems located in the building consisted of steam radiators and limited quantity of electric baseboard heaters.

## 2.0 ASBESTOS SURVEY INFORMATION

The University Village 16 Plex #1 was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 9" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 9" for methodologies, definitions, and other pertinent supporting information.

The University Village 16 Plex #1 was "representatively" sampled by LEGEND as directed by NDSU. LEGEND walked through the building and visually inspected the common areas and room 74 (a dormitory room); these were the only areas LEGEND was granted access to by NDSU. For the purpose of this report, other dormitory rooms are assumed to be of identical construction to room 74.

A total of 57 samples were collected from suspect asbestos-containing materials (ACM) from the University Village 16 Plex #1 on September 11, 2007. Laboratory analysis results indicate **3 of these samples tested positive for asbestos.**

### 2.1 Suspect Materials Identified and Sampled

Gypsum Wallboard (2 types)	Joint Compound (2 types)
Ceiling Texture	Wall Texture (2 types)
Ceiling Tile (4 types)	Linoleum
Underlayment Paper for Linoleum	Sink Undercoating
Carpet Mastic	Baseboard Adhesive
Encapsulant on Fiberglass Insulation	Floor Tile
Floor Tile Mastic	Stair Tread
Stair Tread Adhesive	Exterior Stucco
Exterior Building Seam Caulk (between brick/vinyl)	Exterior Window Caulk
Exterior Foundation Caulk (between stucco/concrete)	Roof Flashing (2 types)
Asphalt Shingle (2 types)	Roof Tarpaper

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 **Asbestos Containing Materials**

Underlayment Paper for Tan Pebble Pattern Linoleum  
Stair Tread Adhesive

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 University Village 16 Plex #1 as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Underlayment Paper	1,971 ft <sup>2</sup>	\$4.00/ ft <sup>2</sup>	\$7,884.00
Asbestos Stair Tread Adhesive	117 ft <sup>2</sup>	\$4.00/ ft <sup>2</sup>	\$468.00
<b>Total Estimated Abatement Costs:</b>			<b>\$8,352.00</b>

2.4 **Survey Notes**

Although room 74 was the only dormitory room LEGEND visually surveyed, architectural drawings were reviewed for room 73 that indicated the underlayment paper for the tan pebble pattern linoleum had been removed along with the linoleum in a renovation to make the room handicap accessible. For the purpose of this report, LEGEND assumes the material has been removed.

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

LEGEND No. 0700048 (NDSU)  
UNIVERSITY VILLAGE 16 PLEX #1 (BUILDING A098)

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

Stair Tread Adhesive	2% Chrysotile	45 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	None
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**Janitor's Room**

Underlayment Paper for Tan Pebble Pattern Linoleum	20% Chrysotile	150 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	None
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**Laundry Room**

Underlayment Paper for Tan Pebble Pattern Linoleum	20% Chrysotile	145 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	None
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**West Stairway**

Stair Tread Adhesive	2% Chrysotile	72 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	None
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**Rooms 67, 68, 69, 70, 71, 72, 74, 75, 76, 77, 78, 79, 80, 81, and 82**

Underlayment Paper for Tan Pebble Pattern Linoleum	20% Chrysotile	107 ft <sup>2</sup> each	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The underlayment paper is below the linoleum in each room's kitchen area, closet/storage area, and bathroom area.
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**Room 73**

Underlayment Paper for Tan Pebble Pattern Linoleum	20% Chrysotile	71 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The underlayment paper is below the linoleum in the kitchen area and the closet/storage area. (see note in narrative report section 2.4)
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\* = Non-Friable materials were not assessed

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

LEGEND No. 0700048 (NDSU)  
 UNIVERSITY VILLAGE 16 PLEX #1 (BUILDING A098)

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

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