

**ASBESTOS SURVEY REPORT  
FOR  
CROSSROADS SCHOOL  
THIRD & JEFFERSON STREETS  
GRIFFIN, GEORGIA 30223**



**July 7, 2008**

**Prepared For:  
Attn: Mr. William Wilson  
Spalding County, Georgia  
P.O. Box 1087  
Griffin, Georgia 30224**

**Prepared By:  
Life Environmental Services, Inc.  
P.O. Box 98217  
Atlanta, GA 30359**

**Owner Information**

**Owner:** Spalding County, Georgia  
**Owner Address:** P.O. Box 1087  
Griffin, Georgia 30224  
**Owner Phone No.:** 770-467-4233

**Facility Name:** Crossroads School  
**Facility Address:** Third & Jefferson Streets  
Griffin, Georgia 30223

**Dates of Construction & Approximate Quantities**

7010: Main Building – 1949	9,000 sf
8010: 6 Unit Addition – 1917	5,230 sf
5010: Gymnasium – 1949	6,760 sf
5020: 4 Unit Addition – 1964	4,408 sf
5021: 4 Unit Addition – 1964	7,761 sf

**Inspection Date(s):** June 11 & July1, 2008

**Inspector Information**

**Inspection Firm:** Life Environmental Services, Inc.  
**Firm Address:** P.O. Box 98217  
Atlanta, GA 30359  
**Firm Phone Number:** 404-320-9608

I hereby certify that the survey and inspection referenced by this report, and the report itself, were conducted in accordance with the intent of NESHAP regulations, to the best of my ability and knowledge.

**Inspector/Report Author Signature:**



**Printed Name:**

Randy Haney \_\_\_\_\_

**Asbestos Inspector License Number**

**EPA MAP Building Inspector License No.:**

**10770**

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## **SECTION 1 EXECUTIVE SUMMARY**

### **1.1 Purpose And Scope Of Work**

The purpose of this inspection is to locate and identify asbestos containing materials (ACM) in the subject property before scheduled demolition/renovation. The National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulation requires that before demolition/renovation of public and commercial buildings, an asbestos survey must be completed (interior & exterior) to identify the location of any ACM. Because the subject property was formerly a school, the Asbestos Hazard Emergency Response Act (AHERA) had required that partial (interior only) asbestos inspections be conducted and any asbestos identified be removed or maintained under an Operations & Maintenance Program. Several abatement projects over the years had removed much of the asbestos from the school. Life Environmental Services, Inc. (herein Life) reviewed all available historical data before conducting the inspection. See Appendix A: Historical Asbestos Data. Life consulted with the schools asbestos Management Planner who walked Life through the buildings pointing out known ACM and locations where ACM had been removed. The current 3-Year Re-inspection was posted in each room and was used by Life to locate known ACM at the current time.

### **1.2 Site Description**

The school, herein the site is located at Third & Jefferson Streets, Griffin, Georgia and consists of five buildings constructed at different periods. The buildings are of various construction. Most buildings are constructed on a slab of cement block/brick walls, metal roof truss and a built up (bldg. 7010, 5020, and 5021, rolled membrane (bldg. 5010) or shingled (bldg. 8010) roof. The interior is constructed of carpet, vinyl tile & concrete floors, concrete walls, stippled wallboard or suspended ceilings, wood or metal windows and wood or metal doors.

### **1.3 Inspection Findings And Recommendations**

An EPA accredited inspector reviewed available building history then physically entered into each room at the site and located 23 homogeneous areas (HA) which had no record of being analyzed for asbestos content. So as not to disturb the material, 4 materials (boilers, transite cement panels, fire door, and black mastic,) were presumed to contain asbestos. These HA produced 57 sample analyses with 6 homogeneous area and/or layers returning positive results. EPA regulations state that any material containing more than 1% asbestos shall be deemed an asbestos containing material. The following table illustrates asbestos containing materials identified by this survey. See Appendix D: Asbestos Containing Materials Locations Drawing for locations of all asbestos identified by this survey.

**Table 1. Asbestos Containing Materials Homogeneous Areas @ Crossroads School**

HA	Location And Description	Type	Friable/ Non-Friable	Quantity	Condition	Recommendations
*WBJC-1	Wallboard/Joint Compd. Building 7010 & 8010	2 % Chrysotile	Friable	14,200 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan
*SC-1	Stippled Ceiling: Throughout Buildings 7010 & 8010	2 % Chrysotile	Friable	14,200 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan
WG-1	Ext. Window Caulking; Building 7010	2 % Chrysotile	Non-Friable	25 Windows	Good	Remove if to be disturbed or remain under O & M Plan
WG-4	Ext. Window Glazing; Gymnasium	2% Chrysotile	Non-Friable	50 Windows	Good	Remove if to be disturbed or remain under O & M Plan
WG-5	Int. & Ext. Window Glazing; All windows including windows lining halls of Bldgs. 5020 & 5021	2% Chrysotile	Non-Friable	126 Windows	Good	Remove if to be disturbed or remain under O & M Plan
TSI-2	Cementitious Pipe Fitting Mud; Building 5021 Room 19	10 % Chrysotile	Friable	10 LF	Good	Remove if to be disturbed or remain under O & M Plan
FT-3	12x12 Brown Floor Tile w/ black mastic; Connecting Hallway between Bldgs. 7010 & 5010	Black Mastic PACM	Non-Friable	270 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan
Boiler	Boilers in Buildings 7010 & 5021	PACM	Friable	3 Boilers	Good	Remove if to be disturbed or remain under O & M Plan
FD-1	Fire Door; Bldg. 7010 Mech. Rm.	PACM	Non-Friable	1 Door	Good	Remove if to be disturbed or remain under O & M Plan
CP-1	Cementitious Ceiling Panels; Bldg. 7010 Mech. Rm.	PACM	Non-Friable	153 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan
BUR w/ Paint	Built Up Roofing Coated w/ Silver Paint; Connecting Hallway between Bldgs. 7010 & 5010	PACM	Non-Friable	250 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan

\*Note: In most cases the asbestos containing stippled ceiling is covering asbestos containing wallboard/joint compound, therefore removal of one material would include removal of the other material.

## SECTION 2 SURVEY METHODOLOGY

### 2.1 Sampling Strategy

Life reviewed all available historical data during the walk-through. The inspector entered into each room locating and noting the different homogeneous areas found within the different dates of construction.

#### 2.1.1 Homogeneous Areas

Within each construction phase, the inspector determined each suspect material and locations of this material throughout the structure. This is called a homogeneous area (HA) and is further placed into one of three categories determined by the components application and use. The three ACM categories are surfacing materials, thermal system insulation (TSI), and miscellaneous materials as defined below.

**Surfacing materials** include sprayed or trowled on surfaces (walls, ceilings, structural members) for acoustical, decorative, or fireproofing purposes. Includes plaster and fireproofing insulation.

**Thermal system insulation** include insulation used to inhibit heat transfer or prevent condensation on pipes, boilers, tanks, ducts, and various other components of hot and cold water systems and heating, ventilation, and air conditioning (HVAC) systems. This includes pipe lagging, pipe wrap, block, batt and blanket insulation, cements and muds, and a variety of other products such as gaskets and ropes.

**Miscellaneous Materials** include other, largely non-friable products and materials such as floor tile, ceiling tile, roofing felt, concrete pipe, outdoor siding, and fabrics.

### 2.1 Analytical Methodology

The samples were delivered to Analytical Environmental Services, Inc. (AES), a National Voluntary Laboratory Accreditation Program (NVLAP) laboratory. The laboratory analyzed the samples using the polarized light microscopy (PLM) with dispersion staining techniques in accordance with EPA Method 600/R-93/116.

### 2.2 Results Assessment Methodology

During the survey, the inspector assessed the materials in each HA for friability and condition. This information is used to determine the response action necessary when evaluating the material. A description of the parameters is included below.

## **Friability**

**Yes** – material that, when dry, may be crumbled, crushed, or reduced to powder by hand pressure, and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that when dry it may be crumbled, crushed, or reduced to powder by hand pressure.

**No** – material that does not meet the definition for friable.

## **Condition**

**Good** – material with no visible damage or deterioration, or showing only very limited damage or deterioration.

**Fair** – material is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).

**Poor** – material exhibits crumbling or blistering over at least one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized); large areas of material hanging from the surface, delaminated, or showing adhesive failure; water stains, gouges, or mars over at least one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).

## SECTION 3 INSPECTION AND ASSESSMENT CONCLUSIONS

### 3.1 Friable Materials

The NESHAP part of the Clean Air Act, regulates certain renovation, removal and waste disposal activities for ACM that may result in emissions. Friable materials are regulated under this standard and friability must be assessed during the inspection. The inspector is required to physically touch the suspect material to assess friability.

The definition of friability as per NESHAP regulation is, materials that have a high probability of becoming crumbled, pulverized, or reduced to powder by hand pressure, or forced expected to act on the material in the course of the work to be performed. Friable building materials that contain more than 1% asbestos minerals are considered regulated material under NESHAP.

#### 3.1.1 Surfacing Materials

The following friable surfacing materials were identified at the site during the survey.

**Table 2. Friable Surfacing Material Homogeneous Areas**

HA	Location And Description	Type	Friable/ Non-Friable	Quantity	Condition	Recommendations
SC-1	Stippled Ceiling; Throughout Buildings 7010 & 8010	2 % Chrysotile	Friable	14,200 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan

#### 3.1.2 Thermal System Insulation (TSI)

The following friable TSI materials were identified at the site during the survey.

**Table 3. Friable TSI Material Homogeneous Areas**

HA	Location And Description	Type	Friable/ Non-Friable	Quantity	Condition	Recommendations
TSI-1	Cloth Pipe Wrapping; Bldg. 7010 Mech. Room	NAD	Friable	100 LF	Good	No Further Recommendations
TSI-2	Cementitious Pipe Fitting Mud; Under Metal Jacket, Building 5021 Room 19	10 % Chrysotile	Friable	10 LF	Good	Remove if to be disturbed or remain under O & M Plan
TSI-4	Foil Pipe Wrap; Bldgs. 5020 & 5021	NAD	Friable	750 LF	Good	No Further Recommendations
TSI-5	Foil HVAC Seal Tape; Bldgs. 5020 & 5021	NAD	Friable	200 LF	Good	No Further Recommendations
TSI-6	Cloth Duct Tape; Bldgs. 5020 & 5021	NAD	Friable	100 LF	Good	No Further Recommendations
Boiler	Boilers in Buildings 7010 & 5021	PACM	Friable	3 Boilers	Good	Remove if to be disturbed or remain under O & M Plan

\* NAD = No Asbestos Detected.

#### 3.1.3 Miscellaneous Materials



The following friable miscellaneous materials were identified at the site during the survey.

**Table 4. Friable Miscellaneous Material Homogeneous Areas**

HA	Location And Description	Type	Friable/ Non-Friable	Quantity	Condition	Recommendations
WBJC-1	Wallboard/Joint Compd. Building 7010 & 8010	2 % Chrysotile	Friable	14,200 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan

### 3.2 Non-Friable Materials

If a building material is judged not to be friable by the method discussed in 3.1 Friable Materials, it is considered non-friable. Non-friable materials may be made friable during demolition or removal and should be treated as friable ACM if damaged.

#### 3.2.1 Surfacing Materials

Non-friable surfacing materials were not identified at the site during the survey.

#### 3.2.2 Thermal System Insulation

Non-friable thermal system insulation materials were not identified at the site during the survey.

#### 3.2.3 Miscellaneous Materials

The following non-friable miscellaneous materials were identified at the site during the survey.

**Table 5. Non-Friable Miscellaneous Material Homogeneous Areas**

HA	Location And Description	Type	Friable/ Non-Friable	Quantity	Condition	Recommendations
FT-1	12x12 White Floor Tile w/ blue streaks; Various Rooms Bldg. 7010	NAD	Non-Friable	400 ft <sup>2</sup>	Good	No Further Recommendations
FT-2	12x12 Cream Floor Tile w/ gray streaks; Bldg. 7010 Janitor's Closet	NAD	Non-Friable	100 ft <sup>2</sup>	Good	No Further Recommendations
FT-3	12x12 Brown Floor Tile w/ black mastic; Connecting Hallway between Bldgs. 7010 & 5010	Black Mastic-PACM	Non-Friable	270 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan
GD-1	Chalkboard Glue Dots; Various Rooms Throughout	NAD	Non-Friable	29 Boards	Good	No Further Recommendations
CT-1	2x2 White Ceiling Tiles; Bldg. 8010	NAD	Non-Friable	80 ft <sup>2</sup>	Good	No Further Recommendations

RS-1	Roof Shingles; Bldg. 8010	NAD	Non-Friable	2,500 ft <sup>2</sup>	Good	No Further Recommendations
BUR-1	Built-up Roof; Bldgs. 7010	NAD	Non-Friable	9,000 ft <sup>2</sup>	Good	No Further Recommendations
RM-1	Rolled Roof Membrane - Gym	NAD	Non-Friable	6,760 ft <sup>2</sup>	Good	No Further Recommendations
CT-2	4x8 Ceiling Panels; Bldg. 5010 under stage	NAD	Non-Friable	480 ft <sup>2</sup>	Good	No Further Recommendations
WC-1	Window Caulking; Bldg. 7010	NAD	Non-Friable	25 windows	Good	No Further Recommendations
WG-1	Window Glazing; Bldg. 7010	2% Chrysotile	Non-Friable	25 windows	Good	Remove if to be disturbed or remain under O & M Plan
WC-2	Window Caulking; Bldg. 8010	NAD	Non-Friable	20 windows	Good	No Further Recommendations
WG-2	Window Glazing; Bldg. 8010	NAD	Non-Friable	20 windows	Good	No Further Recommendations
WG-5	Int. & Ext. Window Glazing; All windows including windows lining halls of Bldgs. 5020 & 5021	2 % Chrysotile	Non-Friable	126 Windows	Good	Remove if to be disturbed or remain under O & M Plan
FD-1	Fire Door; Bldg. 7010 Mech. Rm.	PACM	Non-Friable	1 Door	Good	Remove if to be disturbed or remain under O & M Plan
CP-1	Cementitious Ceiling Panels; Bldg. 7010 Mech. Rm.	PACM	Non-Friable	153 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan
BUR w/ Paint	Built Up Roofing Coated w/ Silver Paint; Connecting Hallway between Bldgs. 7010 & 5010	Silver Paint-PACM	Non-Friable	270 ft <sup>2</sup>	Good	Remove if to be disturbed or remain under O & M Plan

### 3.3 Conclusions and Recommendations

NESHAP governs the removal and disturbance of ACM as mentioned in section 3.1 Friable Materials. The regulations and requirements of NESHAP are enforced by Environmental Protection Agency (EPA) delegated state agencies. These regulations affect the building owner and the removal contractor.

OSHA 29 CFR 1926.1101 Asbestos in Construction Standard, regulates workers and work areas. Work area requirements are defined by OSHA 1926.1101, according to the class of material that is being disturbed. OSHA delineates classes as follows.

- Class I – Activities involving the removal of asbestos containing TSI and surfacing materials.
- Class II – Activities involving the removal of ACM, which is not TSI or surfacing materials. This includes, but is not limited to, the removal of floor tile and sheeting, roofing and siding shingles, and construction mastics.
- Class III – Repair and maintenance operations, where ACM, including TSI and surfacing materials are likely to be disturbed.

Class IV - Maintenance and custodial activities during which employees contact but do not disturb ACM and activities to clean up dust, waste, or debris resulting from Class, I, II, or III activities.

**The stippled ceiling and cementitious pipe fittings must be removed under OSHA Class I requirements. All other materials may be removed as OSHA Class II materials.**

**APPENDIX A**  
**Historical Asbestos Data (Provided by Spalding County Schools)**

# CROSSROADS KITCHEN (ANNEX) HWT RM.

## BULK SAMPLE ANALYSIS

PROJECT NAME: Griffin-Spaulding County School System

DATE OF ANALYSIS: 7/12/85 JOB NO. G-11062  
#6, SPALDING JUNIOR HIGH

CLIENT ID NO.: SCHOOL, UNIT III LAB NO. 11383

SAMPLE LOCATION: MECHANICAL ROOM #5, HOT WATER PIPE JOINT COMPOUND

GROSS SAMPLE DESCRIPTION: BEIGE, GRANULAR, FIBROUS

	MATERIALS PRESENT *	ESTIMATED PERCENT IN SAMPLE **
ASBESTOS:		
Chrysotile	<u>X</u>	<u>7</u>
Amosite	<u>      </u>	<u>      </u>
Crocidolite	<u>      </u>	<u>      </u>
Anthophyllite	<u>      </u>	<u>      </u>
Tremolite	<u>      </u>	<u>      </u>
GLASS FIBERS: <u>      </u>		
MINERAL WOOL:	<u>X</u>	<u>60</u>
PERLITE:	<u>      </u>	<u>      </u>
CELLULOSE/Paper or Wood Fibers:	<u>X</u>	<u>1</u>
MICA:	<u>X</u>	<u>2</u>
BINDERS:	<u>X</u>	<u>30</u>
OTHERS:		
CALCITE	<u>X</u>	<u>TRACE</u>
<u>      </u>	<u>      </u>	<u>      </u>

COMMENTS:       

NOTES:

\*Polarized Light Microscopy coupled with dispersion staining is the technique used for identification.

\*\*The percentage of each component is visually estimated.

MICROSCOPIST:

J. Philip Kyle

REVIEWED BY:

Randall T. Bailey

# CROSSROADS KITCHEN (ANNEX)

## BULK SAMPLE ANALYSIS

PROJECT NAME: Griffin-Spaulding County School System  
DATE OF ANALYSIS: 7/12/85 JOB NO. G-11062  
CLIENT ID NO.: #5, SPALDING JUNIOR HIGH SCHOOL, LAB NO. 11382  
UNIT III  
SAMPLE LOCATION: KITCHEN, ROOM #4; JOINT COMPOUND ON HOT WATER PIPES UNDER VENT HOOD  
GROSS SAMPLE DESCRIPTION: GRAY, FIBROUS, GRANULAR

	MATERIALS PRESENT *	ESTIMATED PERCENT IN SAMPLE **
ASBESTOS:		
Chrysotile	<u>  X  </u>	<u>  10  </u>
Amosite	<u>      </u>	<u>      </u>
Crocidolite	<u>      </u>	<u>      </u>
Anthophyllite	<u>      </u>	<u>      </u>
Tremolite	<u>      </u>	<u>      </u>
GLASS FIBERS:	<u>      </u>	<u>      </u>
MINERAL WOOL:	<u>  X  </u>	<u>  55  </u>
PERLITE:	<u>      </u>	<u>      </u>
CELLULOSE/Paper or Wood Fibers:	<u>  X  </u>	<u>  1  </u>
MICA:	<u>      </u>	<u>      </u>
BINDERS:	<u>  X  </u>	<u>  33  </u>
OTHERS:		
QUARTZ	<u>  X  </u>	<u>  1  </u>
<u>      </u>	<u>      </u>	<u>      </u>
<u>      </u>	<u>      </u>	<u>      </u>

COMMENTS: \_\_\_\_\_

### NOTES:

\*Polarized Light Microscopy coupled with dispersion staining is the technique used for identification.

\*\*The percentage of each component is visually estimated.

MICROSCOPIST:

J. Philip Kyle

REVIEWED BY:

Randall T. Bailey



# CROSSROADS KITCHEN (ANNEX)

## BULK SAMPLE ANALYSIS

PROJECT NAME: Griffin-Spaulding County School System  
DATE OF ANALYSIS: 7/12/85 JOB NO. G-11062  
CLIENT ID NO.: #4, SPALDING JUNIOR HIGH SCHOOL, LAB NO. 11381  
UNIT III  
SAMPLE LOCATION: DISHWASHER ROOM 4.1; HOT WATER PIPE, JOINT COMPOUND  
GROSS SAMPLE DESCRIPTION: GRAY, FIBROUS, GRANULAR

	MATERIALS PRESENT *	ESTIMATED PERCENT IN SAMPLE **
ASBESTOS:		
Chrysotile	<u>X</u>	<u>5</u>
Amosite	<u>X</u>	<u>TRACE</u>
Crocidolite	<u>      </u>	<u>      </u>
Anthophyllite	<u>      </u>	<u>      </u>
Tremolite	<u>      </u>	<u>      </u>
GLASS FIBERS:	<u>      </u>	<u>      </u>
MINERAL WOOL:	<u>X</u>	<u>60</u>
PERLITE:	<u>      </u>	<u>      </u>
CELLULOSE/Paper or Wood Fibers:	<u>X</u>	<u>TRACE</u>
MICA:	<u>      </u>	<u>      </u>
BINDERS:	<u>X</u>	<u>35</u>
OTHERS:		
QUARTZ	<u>X</u>	<u>TRACE</u>
<u>      </u>	<u>      </u>	<u>      </u>
<u>      </u>	<u>      </u>	<u>      </u>

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

### NOTES:

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\*\*The percentage of each component is visually estimated.

MICROSCOPIST:

J. Philip Kyle

REVIEWED BY:

Randall T. Bailey

# CROSSROADS OLD GYM

## BULK SAMPLE ANALYSIS

PROJECT NAME: Griffin-Spaulding County School System

DATE OF ANALYSIS: 7/12/85 JOB NO. G-11062

CLIENT ID NO.: #2, SPALDING JUNIOR HIGH SCHOOL, UNIT III, LAB NO. 11379

SAMPLE LOCATION: ENTRANCE TO ROOM # 44.1; CEILING PLASTER  
(1) BROWN, GRANULAR LAYER

GROSS SAMPLE DESCRIPTION: (2) WHITE GRANULAR LAYER

	MATERIALS PRESENT *		ESTIMATED PERCENT IN SAMPLE **	
	(1)	(2)	(1)	(2)
ASBESTOS:				
Chrysotile				
Amosite				
Crocidolite				
Anthophyllite				
Tremolite				
GLASS FIBERS:				
MINERAL WOOL:				
PERLITE:				
CELLULOSE/Paper or Wood Fibers:	X	X	3	TRACE
MICA:	X	X	15	10
BINDERS:	X	X	42	40
OTHERS:				
QUARTZ	X	X	40	50

COMMENTS: \_\_\_\_\_

NOTES:

\*Polarized Light Microscopy coupled with dispersion staining is the technique used for identification.

\*\*The percentage of each component is visually estimated.

MICROSCOPIST:

REVIEWED BY:

J. Philip Kyle

Randall T. Bailey



# CROSSROADS OLD PART

## BULK SAMPLE ANALYSIS

PROJECT NAME: Griffin-Spaulding County School System  
DATE OF ANALYSIS: 7/22/85 JOB NO. G-11062  
CLIENT ID NO.: #10, SPALDING JUNIOR HIGH SCHOOL,  
UNIT III LAB NO. 11387  
SAMPLE LOCATION: WAREHOUSE RROM #25; WALL PLASTER  
GROSS SAMPLE DESCRIPTION: BEIGE, GRANULAR

	MATERIALS PRESENT *	ESTIMATED PERCENT IN SAMPLE **
ASBESTOS:		
Chrysotile	_____	_____
Amosite	_____	_____
Crocidolite	_____	_____
Anthophyllite	_____	_____
Tremolite	_____	_____
GLASS FIBERS: /	_____	_____
MINERAL WOOL:	_____	_____
PERLITE:	_____	_____
CELLULOSE/Paper or Wood Fibers:	_____ X _____	_____ 1 _____
MICA:	_____ X _____	_____ 10 _____
BINDERS:	_____ X _____	_____ 24 _____
OTHERS:		
ANIMAL HAIR	_____ X _____	_____ 5 _____
QUARTZ, CALCITE	_____ X _____	_____ 60 _____

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

### NOTES:

\*Polarized Light Microscopy coupled with dispersion staining is the technique used for identification.

\*\*The percentage of each component is visually estimated.

MICROSCOPIST:

J. Philip Kyle

REVIEWED BY:

Randall T. Bailey

# CROSSROADS OLD PART

## BULK SAMPLE ANALYSIS

PROJECT NAME: Griffin-Spaulding County School System

DATE OF ANALYSIS: 7/12/85 JOB NO. G-11062

#7, SPALDING JUNIOR HIGH

CLIENT ID NO.: SCHOOL, UNIT III LAB NO. 11384

SAMPLE LOCATION: WAREHOUSE ROOM #29, CEILING PLASTER

GROSS SAMPLE DESCRIPTION: (1) BROWN COAT, GRANULAR  
(2) WHITE COAT, GRANULAR

	MATERIALS PRESENT *		ESTIMATED PERCENT IN SAMPLE **	
	(1)	(2)	(1)	(2)
ASBESTOS:				
Chrysotile				
Amosite				
Crocidolite				
Anthophyllite				
Tremolite				
GLASS FIBERS:				
MINERAL WOOL:				
PERLITE:				
CELLULOSE/Paper or Wood Fibers:	X	X	TRACE	TRACE
MICA:				
BINDERS:	X	X	35	55
OTHERS:				
QUARTZ	X	X	60	45
HAIR	X		5	

COMMENTS: \_\_\_\_\_

NOTES:

\*Polarized Light Microscopy coupled with dispersion staining is the technique used for identification.

\*\*The percentage of each component is visually estimated.

MICROSCOPIST:

J. Philip Kyle

REVIEWED BY:

Randall T. Bailey



# CROSSROADS OLD PART

## BULK SAMPLE ANALYSIS

PROJECT NAME: Griffin-Spaulding County School System

DATE OF ANALYSIS: 7/22/85 JOB NO. G-11062

CLIENT ID NO.: #9, SPALDING JUNIOR HIGH SCHOOL, UNIT III LAB NO. 11386

SAMPLE LOCATION: WAREHOUSE ROOM 261; CEILING PLASTER

GROSS SAMPLE DESCRIPTION: BEIGE, GRANULAR

	MATERIALS PRESENT *	ESTIMATED PERCENT IN SAMPLE **
ASBESTOS:		
Chrysotile	_____	_____
Amosite	_____	_____
Crocidolite	_____	_____
Anthophyllite	_____	_____
Tremolite	_____	_____
GLASS FIBERS:	_____	_____
MINERAL WOOL:	_____	_____
PERLITE:	_____	_____
CELLULOSE/Paper or Wood Fibers:	_____	_____
MICA:	_____ X _____	_____ 15 _____
BINDERS:	_____ X _____	_____ 35 _____
OTHERS:		
<u>QUARTZ, CALCITE</u>	_____ X _____	_____ 45 _____
<u>ANIMAL HAIR</u>	_____ X _____	_____ 5 _____

COMMENTS: \_\_\_\_\_

### NOTES:

\*Polarized Light Microscopy coupled with dispersion staining is the technique used for identification.

\*\*The percentage of each component is visually estimated.

MICROSCOPIST:

J. Philip Kyle

REVIEWED BY:

Randall T. Bailey

# CROSSROADS OLD PART

## BULK SAMPLE ANALYSIS

PROJECT NAME: Griffin-Spaulding County School System

DATE OF ANALYSIS: 7/12/85 JOB NO. G-11062

#8, SPALDING JUNIOR HIGH SCHOOL,

CLIENT ID NO.: UNIT III LAB NO. 11385

SAMPLE LOCATION: WAREHOUSE ROOM 30; WALL PLASTER

GROSS SAMPLE DESCRIPTION: 2 LAYERS (1) BROWN COAT, GRANULAR (2) WHITE COAT, GRANULAR

	MATERIALS PRESENT *		ESTIMATED PERCENT IN SAMPLE **	
	(1)	(2)	(1)	(2)
ASBESTOS:				
Chrysotile				
Amosite				
Crocidolite				
Anthophyllite				
Tremolite				
GLASS FIBERS:				
MINERAL WOOL:				
PERLITE:				
CELLULOSE/Paper or Wood Fibers:	X	X	TRACE	TRACE
MICA:				
BINDERS:	X	X	33	55
OTHERS:				
QUARTZ	X	X	65	45
HAIR	X		2	

COMMENTS: \_\_\_\_\_

NOTES:

\*Polarized Light Microscopy coupled with dispersion staining is the technique used for identification.

\*\*The percentage of each component is visually estimated.

MICROSCOPIST:

J. Philip Kyle

REVIEWED BY:

Randall T. Bailey

CROSSROAD

MODIFICATION BUDGET

NAME OF SCHOOL Spalding Jr. High III

BUILDING NO.(S) 5010

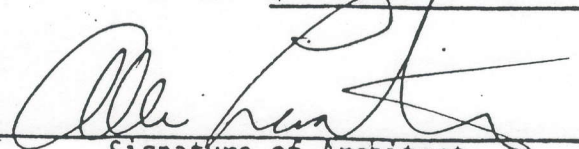
SPACE NO.(S) 45

Cost Estimate for Asbestos Removal, Containment, and Restoration:

(Itemize actual scope and costs of each activity. Do not project inflation or fees into estimates.)

	<u>Abatement</u>	<u>Unit Cost</u>	<u>Restoration</u>	<u>Unit Cost</u>
1 water tank insulation 6' x 4' diameter	\$ 2,020	\$20/sq.ft.	\$ 1,515	\$15/sq.ft.
1 TEM air test	\$ 600	\$600/each		
	<hr/>		<hr/>	
	\$ 2,620		\$ 1,515	

TOTAL: \$ 4135

  
 \_\_\_\_\_  
 Signature of Architect

Civil Engineer

Registered Georgia 7075



MODIFICATION BUDGET

NAME OF SCHOOL Spalding Jr. High III

BUILDING NO.(S) 5021

SPACE NO.(S) 4, 4.1, 5

Cost Estimate for Asbestos Removal, Containment, and Restoration:

(Itemize actual scope and costs of each activity. Do not project inflation or fees into estimates.)

	<u>Abatement</u>	<u>Unit Cost</u>	<u>Restoration</u>	<u>Unit Cost</u>
47 pipe joint compounds	\$ 1,645	\$35/joint	\$ 470	\$10/joint
	<u>\$ 1,645</u>		<u>\$ 470</u>	

TOTAL: \$ 2115

  
\_\_\_\_\_  
Signature of Architect

Civil Engineer

Registered Georgia 7075

MODIFICATION BUDGET

NAME OF SCHOOL Spalding Jr. High III

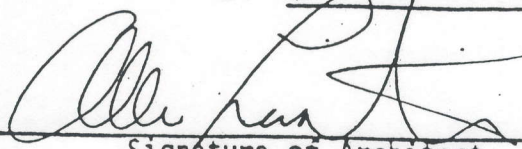
BUILDING NO.(S) 5020 SPACE NO.(S) 9

Cost Estimate for Asbestos Removal, Containment, and Restoration:

(Itemize actual scope and costs of each activity. Do not project inflation or fees into estimates.)

	<u>Abatement</u>	<u>Unit Cost</u>	<u>Restoration</u>	<u>Unit Cost</u>
30 pipe joint compounds	\$ 1,050	\$35/joint	\$ 300	\$10/joint
	<u>\$ 1,050</u>		<u>\$ 300</u>	

TOTAL: \$ 1350

  
 \_\_\_\_\_  
 Signature of Architect

Civil Engineer

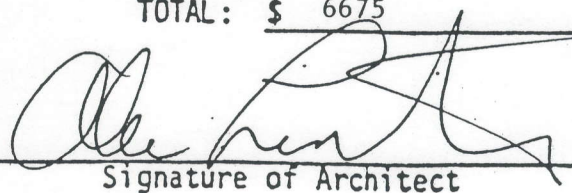
Registered Georgia 7075

## MODIFICATION BUDGET

NAME OF SCHOOL Spalding Jr. High IIIBUILDING NO.(S) 7010SPACE NO.(S) 19Cost Estimate for Asbestos Removal, Containment, and Restoration:

(Itemize actual scope and costs of each activity. Do not project inflation or fees into estimates.)

	<u>Abatement</u>	<u>Unit Cost</u>	<u>Restoration</u>	<u>Unit Cost</u>
120'-4" diameter pipe insulation	\$ 3,000	\$25/lin.ft.	\$ 2,100	\$17.50/lin.ft.
35 pipe joints	\$ 1,225	\$35/joint	\$ 350	\$10/joint
	<u>\$ 4,225</u>		<u>\$ 2,450</u>	

TOTAL: \$ 6675


Signature of Architect

Civil Engineer

Registered Georgia 7075



MODIFICATION BUDGET

NAME OF SCHOOL Spalding Jr. High III

BUILDING NO.(S) 8010

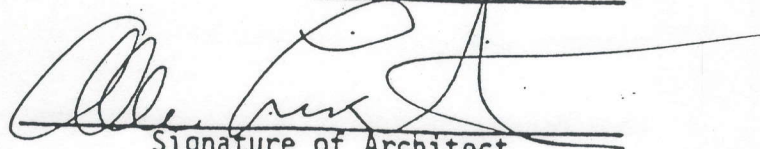
SPACE NO.(S) crawl

Cost Estimate for Asbestos Removal, Containment, and Restoration:

(Itemize actual scope and costs of each activity. Do not project inflation or fees into estimates.)

	<u>Abatement</u>	<u>Unit Cost</u>	<u>Restoration</u>	<u>Unit Cost</u>
342'-2" diameter pipe insulation	\$8,550	\$25/lin.ft.	\$4,450	\$13/lin.ft.
	<u>\$8,550</u>		<u>\$4,450</u>	

TOTAL: \$ 13,000



Signature of Architect

Civil Engineer

Registered Georgia 7075

**APPENDIX B**  
**Laboratory Analysis Results, Chain of Custody Forms**

**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

3785 Presidential Pkwy., Atlanta, GA 30340-3704  
(770) 457-8177 / Toll Free (800) 972-4889 / Fax (770) 457-8188

0806717

**CHAIN OF CUSTODY  
BULK ASBESTOS ANALYSIS**

Client Name: Life Environmental Services, Inc. Phone: 404 320-9608  
 Address: P.O. Box 98217 Fax: 404 320-9618  
 City, State, Zip: Atlanta, GA 30359 Project Name: SpaldCo - Crossroads  
 Contact: Randy Haney Project Number: \_\_\_\_\_  
 Sampler's Name: Randy Haney Sampling Date: 6/11/08

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 FT-1A	12x12 white FT - blue streaks	PLM	Normal	* Please use positive stop for all samples	
2 FT-1B	" "				
3 FT-2A	12x12 <sup>cream</sup> white FT - gray streaks				
4 FT-2B	" "				
5 TSI-1A	cloth pipe wrap			* Please email results upon completion	
6 TSI-1B	" "				
7 TSI-1C	" "				
8 GD-1A	chalkboard glue dots				
9 GD-1B	" "				
10 WBSC-1A	walboard/df. Compd.				
11 WBSC-1B	" "				
12 WBSC-1C	" "				
13 CT-1A	2x2 white ceiling tile				
14 CT-1B	" "				
15 RS-1A	Roof shingles				
16 RS-1B	" "				
17 BUR-1A	Built-up Roofing				
18 BUR-1B	" "				
19 RM-1A	Roof Membrane - Gym				
20 RM-1B	" "				

Relinquished by: Randy Haney Date/Time: 6/11/08 16:30  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Lab Recipient: [Signature] FOR LAB USE ONLY  
 Date/Time: 6/11/08 Method of Shipment: 9:30 C.I.P.H.T.

**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

3785 Presidential Pkwy., Atlanta, GA 30340-3704  
(770) 457-8177 / Toll Free (800) 972-4889 / Fax (770) 457-8188

0800717

**CHAIN OF CUSTODY  
BULK ASBESTOS ANALYSIS**

Client Name: Life Environmental Services, Inc. Phone: (404) 320-9608  
 Address: P.O. Box 98217 Fax: (404) 320-9618  
 City, State, Zip: Atlanta, GA 30359 Project Name: SpaldCo - Crossroads  
 Contact: Randy Haney Project Number: \_\_\_\_\_  
 Sampler's Name: Randy Haney Sampling Date: 6/11/08

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 SC-1A	Stipple Ceiling - Throughout	PLM	Normal	*Please use	
2 SC-1B	" " "			positive stop	
3 SC-1C	" " "			all samples.	
4 SC-1D	" " "				
5 SC-1E	" " "			*Please email	
6 SC-1F	" " "			results upon	
7 SC-1G	" " "			completion	
8 TSI-2A	Cementitious mud				
9 TSI-2B	" "				
10 TSI-2C	" "				
11 CT-2A	4x8 Ceiling Panels				
12 CT-2B	" " "				
13 WC-1A	Window Caulking - 7010				
14 WC-1B	" " "				
15 WG-1A	Window Glazing - 7010				
16 <del>WG-1B</del> WG-1B	" " "				
17 WC-2A	Window Caulking - 8010				
18 WC-2B	" " "				
19 WG-2A	Window Glazing - 8010				
20 WG-2B	" " "	✓	✓		

Relinquished by: Randy Haney Date/Time: 6/11/08 16:30  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

**FOR LAB USE ONLY**

Lab Recipient: [Signature] Date/Time: 6/11/08 Method of Shipment: 4:35 client



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

**Bulk Sample Summary Report**

Client Name: **Life Environmental**  
 Project Name: **SPALD CO - CROSSROADS**  
 Project Number:



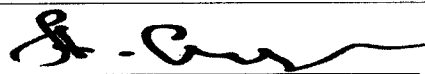
Lab ID# 102082-0  
 AES Job Number: **0806717**

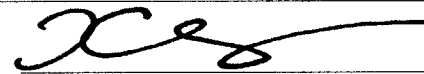
Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
FT-1A Layer: 1	0806717-001A	12x12 White FT - Blue Streaks	ND	ND	ND	ND	ND	ND	Paint included as binder
FT-1B Layer: 1	0806717-002A	12x12 White FT - Blue Streaks	ND	ND	ND	ND	ND	ND	Paint included as binder
FT-2A Layer: 1	0806717-003A	12x12 Cream FT - Gray Streaks	ND	ND	ND	ND	ND	ND	Paint included as binder
FT-2B Layer: 1	0806717-004A	12x12 Cream FT - Gray Streaks	ND	ND	ND	ND	ND	ND	Paint included as binder
TSI-1A Layer: 1	0806717-005A	Cloth Pipe Wrap	ND	ND	ND	ND	ND	ND	
TSI-1A Layer: 2	0806717-005A	Cloth Pipe Wrap	ND	ND	ND	ND	ND	ND	
TSI-1B Layer: 1	0806717-006A	Cloth Pipe Wrap	ND	ND	ND	ND	ND	ND	
TSI-1B Layer: 2	0806717-006A	Cloth Pipe Wrap	ND	ND	ND	ND	ND	ND	
TSI-1B Layer: 3	0806717-006A	Cloth Pipe Wrap	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.  
 ND = None Detected

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to determine the conclusive asbestos content.

It is certified by the signatures below that the laboratory identified is accredited by the National Institute of Standards and Technology for Polarized Light Microscopy (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program, Laboratory ID 102082-0. All percentages given are by visually estimated volume. All analyses are performed in accordance with the EPA "Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, July 1993." This report must not be reproduced except in full without the approval of Analytical Environmental Service, Inc. These test results apply only to the samples actually tested.

Microanalyst:   
 Arkadiy Gendlin

QC Analyst:   
 Yelena Khanina



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

**Bulk Sample Summary Report**

Client Name: **Life Environmental**  
 Project Name: **SPALD CO - CROSSROADS**  
 Project Number:




Lab ID# 102082-0  
 AES Job Number: **0806717**


Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
TSI-1C Layer: 1	0806717-007A	Cloth Pipe Wrap	ND	ND	ND	ND	ND	ND	
TSI-1C Layer: 2	0806717-007A	Cloth Pipe Wrap	ND	ND	ND	ND	ND	ND	
TSI-1C Layer: 3	0806717-007A	Cloth Pipe Wrap	ND	ND	ND	ND	ND	ND	
GD-1A Layer: 1	0806717-008A	Chalkboard Glue Dots	ND	ND	ND	ND	ND	ND	Paint and Talc included as binder
GD-1A Layer: 2	0806717-008A	Chalkboard Glue Dots	ND	ND	ND	ND	ND	ND	Paint included as binder
GD-1A Layer: 3	0806717-008A	Chalkboard Glue Dots	ND	ND	ND	ND	ND	ND	Talc included as binder
GD-1B Layer: 1	0806717-009A	Chalkboard Glue Dots	ND	ND	ND	ND	ND	ND	Paint and Talc included as binder
WBJC-1A Layer: 1	0806717-010A	Wallboard / Jt. Compd.	ND	ND	ND	ND	ND	ND	Paint included as binder
WBJC-1A Layer: 2	0806717-010A	Wallboard / Jt. Compd.	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.  
 ND = None Detected

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Microanalyst:   
 Arkady Gendlin

QC Analyst:   
 Yelena Khanina



# ANALYTICAL ENVIRONMENTAL SERVICES, INC.

## Bulk Sample Summary Report

Client Name: **Life Environmental**  
 Project Name: **SPALD CO - CROSSROADS**  
 Project Number:



Lab ID# 102082-0  
 AES Job Number: **0806717**

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
WBJC-1A Layer: 3	0806717-010A	Wallboard / Jt. Compd.	ND	ND	ND	ND	ND	ND	
WBJC-1B Layer: 1	0806717-011A	Wallboard / Jt. Compd.	2	ND	ND	ND	ND	ND	Paint included as binder
WBJC-1B Layer: 2	0806717-011A	Wallboard / Jt. Compd.	ND	ND	ND	ND	ND	ND	
CT-1A Layer: 1	0806717-013A	2x2 White Ceiling Tile	ND	ND	ND	ND	ND	ND	Paint included as binder
CT-1B Layer: 1	0806717-014A	2x2 White Ceiling Tile	ND	ND	ND	ND	ND	ND	Paint included as binder
RS-1A Layer: 1	0806717-015A	Roof Shingles	ND	ND	ND	ND	ND	ND	
RS-1A Layer: 2	0806717-015A	Roof Shingles	ND	ND	ND	ND	ND	ND	
RS-1B Layer: 1	0806717-016A	Roof Shingles	ND	ND	ND	ND	ND	ND	
RS-1B Layer: 2	0806717-016A	Roof Shingles	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected


PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to determine the conclusive asbestos content.

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Microanalyst:

  
 Arkadiy Gendlin

QC Analyst:

  
 Yelena Khanina



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

**Bulk Sample Summary Report**

Client Name: **Life Environmental**  
 Project Name: **SPALD CO - CROSSROADS**  
 Project Number:




Lab ID# 102082-0  
 AES Job Number: **0806717**

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
BUR-1A Layer: 1	0806717-017A	Built-Up Roofing	ND	ND	ND	ND	ND	ND	
BUR-1B Layer: 1	0806717-018A	Built-Up Roofing	ND	ND	ND	ND	ND	ND	
RM-1A Layer: 1	0806717-019A	Roof Membrane - Gym	ND	ND	ND	ND	ND	ND	
RM-1A Layer: 2	0806717-019A	Roof Membrane - Gym	ND	ND	ND	ND	ND	ND	
RM-1A Layer: 3	0806717-019A	Roof Membrane - Gym	ND	ND	ND	ND	ND	ND	
RM-1B Layer: 1	0806717-020A	Roof Membrane - Gym	ND	ND	ND	ND	ND	ND	
RM-1B Layer: 2	0806717-020A	Roof Membrane - Gym	ND	ND	ND	ND	ND	ND	
RM-1B Layer: 3	0806717-020A	Roof Membrane - Gym	ND	ND	ND	ND	ND	ND	
SC-1A Layer: 1	0806717-021A	Stipple Ceiling - Throughout	2	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.  
 ND = None Detected

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Microanalyst:   
 Arkadiy Gendlin

QC Analyst:   
 Yelena Khanina





**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

**Bulk Sample Summary Report**

Client Name: **Life Environmental**  
 Project Name: **SPALD CO - CROSSROADS**  
 Project Number:



Lab ID# 102082-0  
 AES Job Number: **0806717**


Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
SC-1A Layer: 2	0806717-021A	Stipple Ceiling - Throughout	ND	ND	ND	ND	ND	ND	
SC-1A Layer: 3	0806717-021A	Stipple Ceiling - Throughout	ND	ND	ND	ND	ND	ND	
TSI-2A Layer: 1	0806717-028A	Cementitious Mud	10	ND	ND	ND	ND	ND	Paint included as binder
CT-2A Layer: 1	0806717-031A	4x8 Ceiling Panels	ND	ND	ND	ND	ND	ND	Paint included as binder
CT-2B Layer: 1	0806717-032A	4x8 Ceiling Panels	ND	ND	ND	ND	ND	ND	Paint included as binder
WC-1A Layer: 1	0806717-033A	Window Caulking - 7010	ND	ND	ND	ND	ND	ND	Paint included as binder
WC-1B Layer: 1	0806717-034A	Window Caulking - 7010	ND	ND	ND	ND	ND	ND	Paint included as binder
WG-1A Layer: 1	0806717-035A	Window Glazing - 7010	2	ND	ND	ND	ND	ND	Paint included as binder
WC-2A Layer: 1	0806717-037A	Window Caulking - 8010	ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.

ND = None Detected

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Microanalyst:   
 Arkadiy Gendlin

QC Analyst:   
 Yelena Khanina



# ANALYTICAL ENVIRONMENTAL SERVICES, INC.

## Bulk Sample Summary Report

Client Name: Life Environmental  
 Project Name: SPALD CO - CROSSROADS  
 Project Number:




Lab ID# 102082-0  
 AES Job Number: 0806717

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
WC-2A Layer: 2	0806717-037A	Window Caulking - 8010	ND	ND	ND	ND	ND	ND	
WC-2B Layer: 1	0806717-038A	Window Caulking - 8010	ND	ND	ND	ND	ND	ND	Paint included as binder
WC-2B Layer: 2	0806717-038A	Window Caulking - 8010	ND	ND	ND	ND	ND	ND	
WG-2A Layer: 1	0806717-039A	Window Glazing - 8010	ND	ND	ND	ND	ND	ND	Paint included as binder
WG-2B Layer: 1	0806717-040A	Window Glazing - 8010	ND	ND	ND	ND	ND	ND	Paint included as binder
WG-2B Layer: 2	0806717-040A	Window Glazing - 8010	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.  
 ND = None Detected

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Microanalyst:   
 Arkadiy Gendlin

QC Analyst:   
 Yelena Khanina

0807064

CHAIN OF CUSTODY  
 BULK ASBESTOS ANALYSIS

Client Name: Life Environmental Services, Inc. Phone: 404 320-9608  
 Address: P.O. Box 98217 Fax: 404 320-9618  
 City, State, Zip: Atlanta, GA 30359 Project Name: SpaldCo - Crossroads  
 Contact: Randy Haney Project Number: \_\_\_\_\_  
 Sampler's Name: Randy Haney Sampling Date: 7/1/08

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 BUR-2A	Bld. 5020 & 5021	PLM	48hr	* Please use	
2 BUR-2B	" " "			positive stop	
3 WG-3A	Window Glazing / 701D Int.				
4 WG-3B	" " / 801D Int.				
5 WG-4A	" " / Gym Ext.				
6 WG-4B	" " / " Ext.				
7 WG-5A	" " / 500 Int. Ext.				
8 WG-5B	" " / 5021 " "			* Please	
9 TSI-4A	Foil Pipe Wrap / 5020 & 5021			Email Results	
10 TSI-4B	" " " / " "			To Life	
11 TSI-4C	" " " / " "			Environmental	
12 TSI-5A	Foil Tape / " "				
13 TSI-5B	" " / " "				
14 TSI-5C	" " / " "				
15 TSI-6A	Cloth Tape / " "				
16 TSI-6B	" " / " "				
17 TSI-6C	" " / " "				
18					
19					
20					

Relinquished by: Randy Haney Date/Time: 7/1/08 15:53  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Recipient: [Signature] FOR LAB USE ONLY  
 Date/Time: 7/1/08 Method of Shipment: 3:55 Collect



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

**Bulk Sample Summary Report**

Client Name: **Life Environmental**  
 Project Name: **Spald Co - Crossroads**  
 Project Number:



Lab ID# 102082-0  
 AES Job Number: **0807064**  
 Monday, July 07, 2008  
 Page 1 of 5

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
BUR-2A Layer: 1	0807064-001A	Bld. 5020 & 5021	ND	ND	ND	ND	ND	ND	Paint included as binder
BUR-2A Layer: 2	0807064-001A	Bld. 5020 & 5021	ND	ND	ND	ND	ND	ND	
BUR-2B Layer: 1	0807064-002A	Bld. 5020 & 5021	ND	ND	ND	ND	ND	ND	Paint included as binder
BUR-2B Layer: 2	0807064-002A	Bld. 5020 & 5021	ND	ND	ND	ND	ND	ND	
WG-3A Layer: 1	0807064-003A	Window Glazing / 7010 Int.	ND	ND	ND	ND	ND	ND	Paint included as binder
WG-3B Layer: 1	0807064-004A	Window Glazing / 8010 Int.	ND	ND	ND	ND	ND	ND	Paint included as binder
WG-4A Layer: 1	0807064-005A	Window Glazing / Gym Ext.	2	ND	ND	ND	ND	ND	Paint included as binder
WG-5A Layer: 1	0807064-007A	Window Glazing / 5000 Int. Ext.	2	ND	ND	ND	ND	ND	Paint included as binder
TSI-4A Layer: 1	0807064-009A	Foil Pipe Wrap / 5020 & 5021	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.  
 ND = None Detected

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to determine the conclusive asbestos content.

It is certified by the signatures below that the laboratory identified is accredited by the National Institute of Standards and Technology for Polarized Light Microscopy (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program, Laboratory ID 102082-0. All percentages given are by visually estimated volume. All analyses are performed in accordance with the EPA "Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, July 1993." This report must not be reproduced except in full without the approval of Analytical Environmental Service, Inc. These test results apply only to the samples actually tested.

Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

**Bulk Sample Summary Report**

Client Name: **Life Environmental**  
 Project Name: **Spald Co - Crossroads**  
 Project Number:




Lab ID# 102082-0  
 AES Job Number: **0807064**  
 Monday, July 07, 2008  
 Page 2 of 5

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
TSI-4A Layer: 2	0807064-009A	Foil Pipe Wrap / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-4B Layer: 1	0807064-010A	Foil Pipe Wrap / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-4B Layer: 2	0807064-010A	Foil Pipe Wrap / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-4B Layer: 3	0807064-010A	Foil Pipe Wrap / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-4C Layer: 1	0807064-011A	Foil Pipe Wrap / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-4C Layer: 2	0807064-011A	Foil Pipe Wrap / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5A Layer: 1	0807064-012A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5A Layer: 2	0807064-012A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5A Layer: 3	0807064-012A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.  
 ND = None Detected

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 Elena Ivanova

QC Analyst:   
 Yelena Khanina



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

**Bulk Sample Summary Report**

Client Name: **Life Environmental**  
 Project Name: **Spald Co - Crossroads**  
 Project Number:



Lab ID# 102082-0  
 AES Job Number: **0807064**  
 Monday, July 07, 2008  
 Page 3 of 5

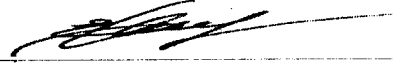
Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
TSI-5A Layer: 4	0807064-012A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5B Layer: 1	0807064-013A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5B Layer: 2	0807064-013A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5B Layer: 3	0807064-013A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5B Layer: 4	0807064-013A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5C Layer: 1	0807064-014A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5C Layer: 2	0807064-014A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5C Layer: 3	0807064-014A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-5C Layer: 4	0807064-014A	Foil Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.

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 Elena Ivanova

QC Analyst:   
 Yelena Khanina



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

**Bulk Sample Summary Report**

Client Name: **Life Environmental**  
 Project Name: **Spald Co - Crossroads**  
 Project Number:



Lab ID# 102082-0  
 AES Job Number: **0807064**  
 Monday, July 07, 2008  
 Page 4 of 5

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
TSI-6A Layer: 1	0807064-015A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6A Layer: 2	0807064-015A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6A Layer: 3	0807064-015A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6A Layer: 4	0807064-015A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6B Layer: 1	0807064-016A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6B Layer: 2	0807064-016A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6B Layer: 3	0807064-016A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6B Layer: 4	0807064-016A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6C Layer: 1	0807064-017A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.

ND = None Detected

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Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina



# ANALYTICAL ENVIRONMENTAL SERVICES, INC.

## Bulk Sample Summary Report

Client Name: **Life Environmental**  
 Project Name: **Spald Co - Crossroads**  
 Project Number:



Lab ID# 102082-0  
 AES Job Number: **0807064**  
 Monday, July 07, 2008  
 Page 5 of 5

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
TSI-6C Layer: 2	0807064-017A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6C Layer: 3	0807064-017A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	
TSI-6C Layer: 4	0807064-017A	Cloth Tape / 5020 & 5021	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite  
 For comments on the samples, see the individual analysis sheets.

ND = None Detected

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to determine the conclusive asbestos content.

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Microanalyst:

Elena Ivanova

QC Analyst:

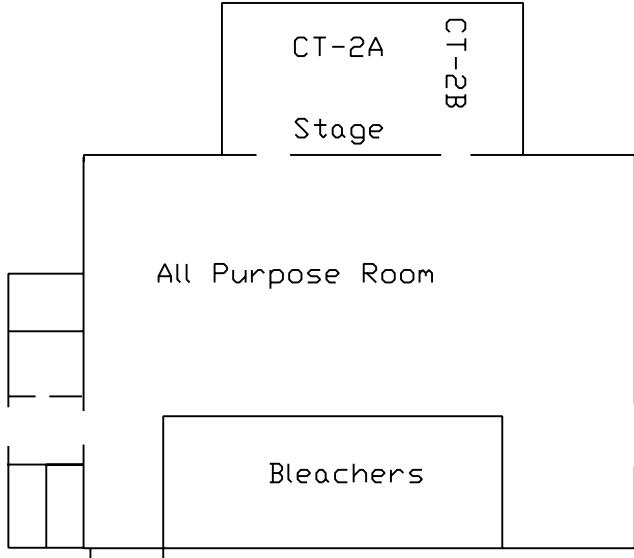
Yelena Khanina



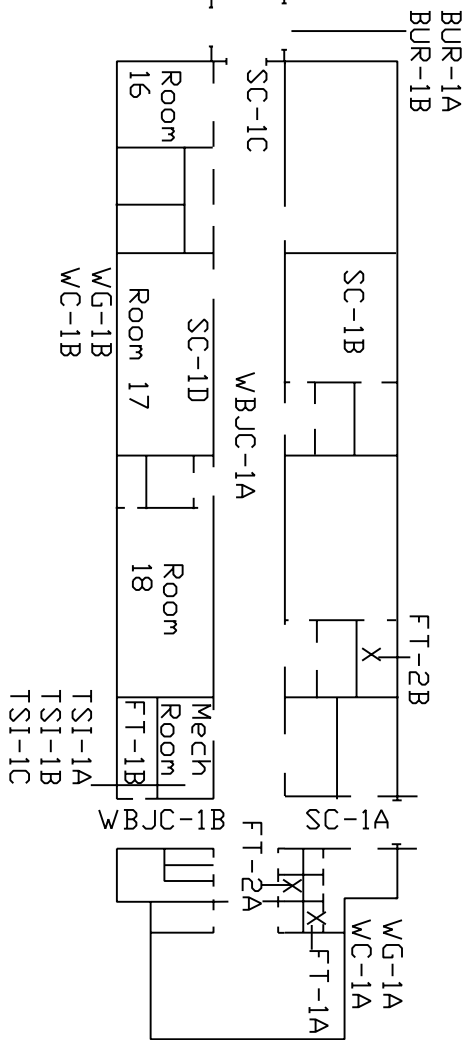
**APPENDIX C**  
**Individual Sampling Location Drawing**

# INDIVIDUAL SAMPLE LOCATIONS DRAWING

Bldg 5010  
(Gym)



Bldg 7010



REV	DATE	DESCRIPTION	OWN BY	DES BY	CHE BY	APP BY

Life Environmental Services, Inc.  
P. O. Box 98217  
Atlanta, GA 30359  
404-320-9608

Spalding County  
Old Fairmont School  
3rd St. & Jefferson St.  
Griffin, GA 30223

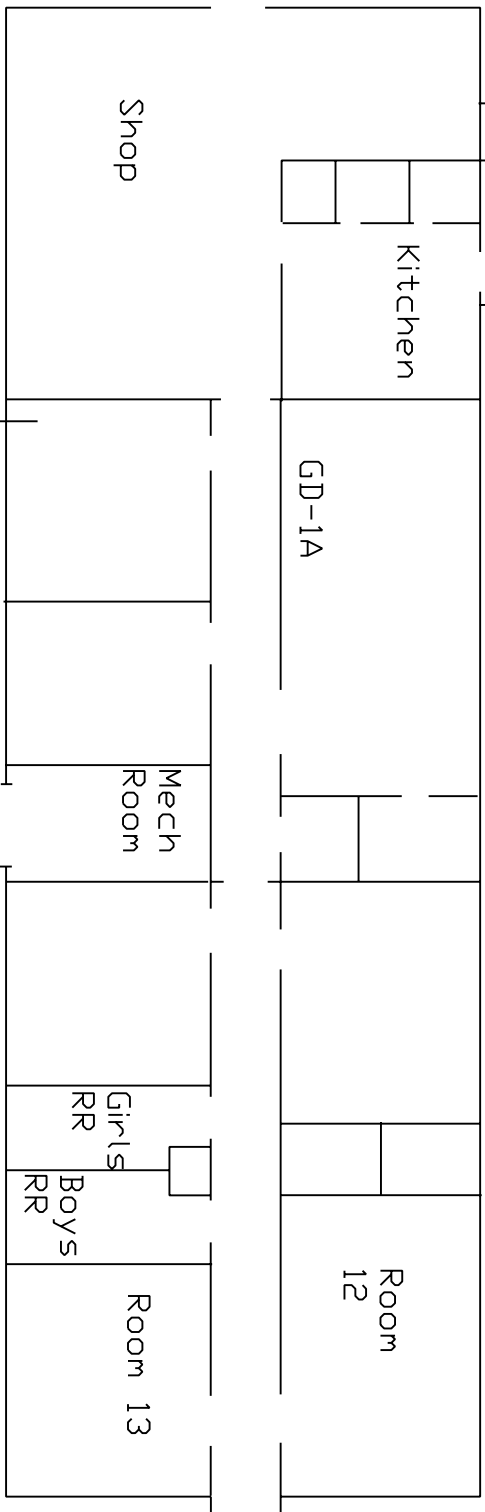
JOB NAME  
DATE: 06-23-08  
SCALE: AS SHOWN  
REV: 01

SHEET NO.

# INDIVIDUAL SAMPLE LOCATIONS DRAWING

Bldg 5021

Bldg 5020



\*TSI-2A,2B,2C samples taken from under metal jacket in corner of room 19

REV	DATE	DESCRIPTION	DRN BY	DES BY	CHK BY	APP BY

Life Environmental Services, Inc.  
 P. O. Box 98217  
 Atlanta, GA 30359  
 404-320-9608

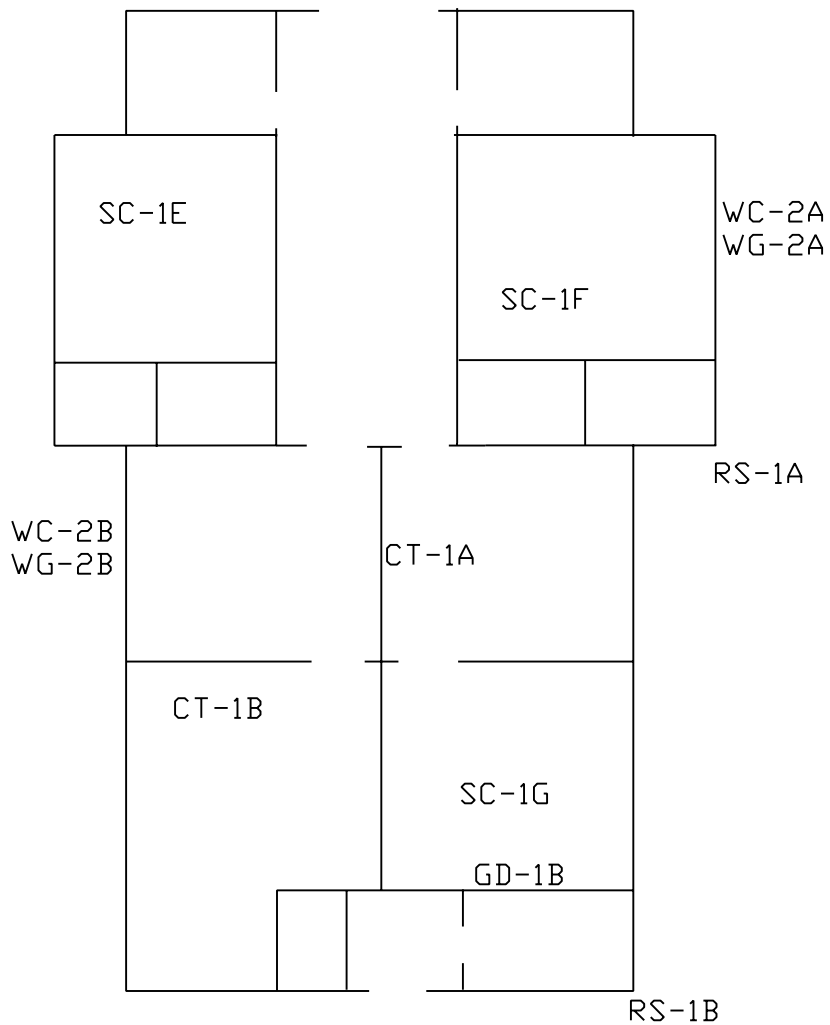
Spalding County  
 Old Fairmont School  
 3rd St. & Jefferson St.  
 Griffin, GA 30223

JOB NAME  
 DATE ISSUED  
 DRAWN BY  
 DESIGNED BY  
 CHECKED BY  
 APPROVED BY

SHEET NO.

# INDIVIDUAL SAMPLE LOCATIONS DRAWING

## Bldg 8010



ON LEHS  
 DATE: 05-25-05  
 REV: 01  
 JOB NAME: SPALDING COUNTY

Spalding County  
 Old Fairmont School  
 3rd St. & Jefferson St.  
 Griffin, GA 30223

Life Environmental Services, Inc.

P. O. Box 98217  
 Atlanta, GA 30359  
 404-320-9608

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

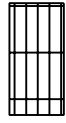
**APPENDIX D**  
**Asbestos Containing Materials Locations Drawing**

# ASBESTOS CONTAINING MATERIALS LOCATIONS DRAWING

## KEY



9X9 Floor Tile/Black Mastic is asbestos containing material

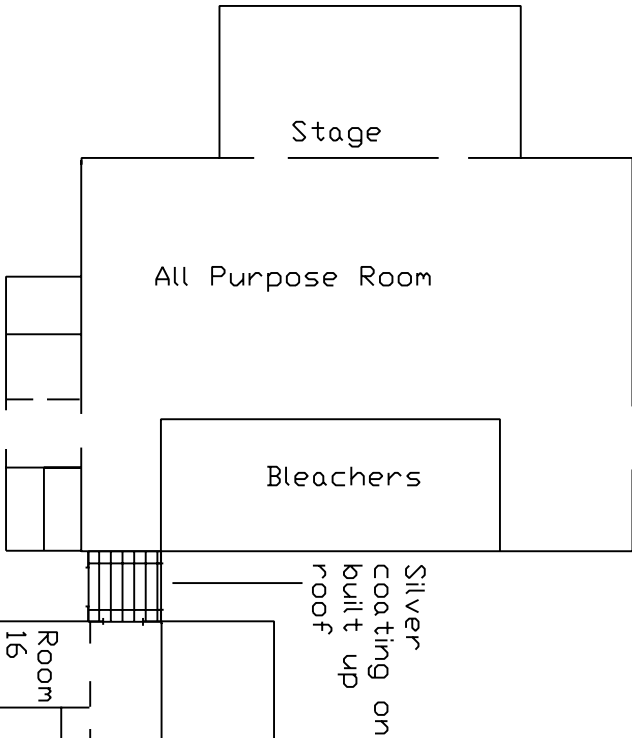


12x12 Floor Tile/Black Mastic is asbestos containing material

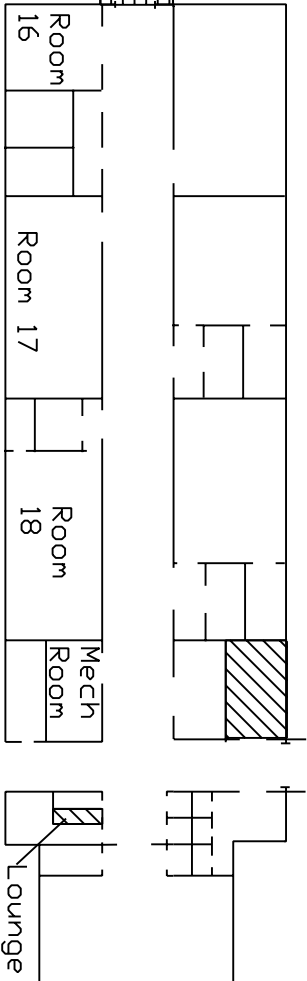
## NOTES:

- Wallboard/Jt. Cmpd. in Bldgs. 7010 & 8010 contains 2% Chrysotile asbestos.
- Stipple ceiling in Bldgs. 7010 & 8010 contains 2% Chrysotile asbestos.
- Window glazing in Bldgs. 5020, 5021 & 7010 contains 2% Chrysotile asbestos.
- TSI under metal jacket in Room 19, Bldg. 5021 contains 10% Chrysotile asbestos
- Cement board ceiling and Fire door in Mechanical Room 19, Bldg. 7010 is asbestos containing material
- Silver coating on built up roof between Bldgs. 7010 & 5010 is asbestos containing material
- 4x10 Boiler in Bldg. 7010 and 2 boilers in Bldgs. 5020/5021 are presumed to be asbestos containing material.

Bldg 5010  
<Gym>



Bldg 7010



REV	DATE	DESCRIPTION	OWN BY	DES BY	CHE BY	APP BY

Life Environmental Services, Inc.  
P. O. Box 98217  
Atlanta, GA 30359  
404-320-9608



Spalding County  
Old Fairmont School  
3rd St. & Jefferson St.  
Griffin, GA 30223

JOB NAME  
DATE ISSUED  
REV. SHEET  
SHEET NO.

SHEET NO.

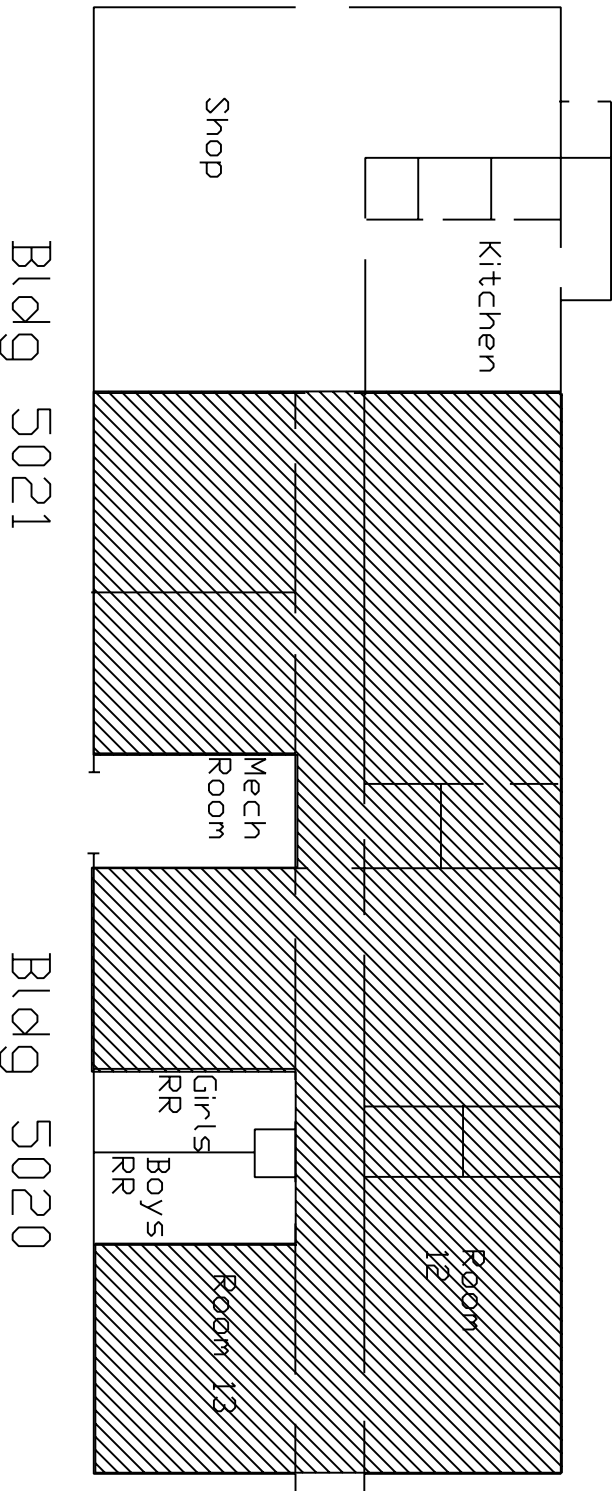
# ASBESTOS CONTAINING MATERIALS LOCATIONS DRAWING

## KEY

-  9x9 Floor Tile/Black Mastic is asbestos containing material
-  12x12 Floor Tile/Black Mastic is asbestos containing material

## NOTES:

- Wallboard/Jt. Cmpd. in Bldgs. 7010 & 8010 contains 2% Chrysotile asbestos
- Stipple ceiling in Bldgs. 7010 & 8010 contains 2% Chrysotile asbestos
- Window glazing in Bldgs. 5020, 5021 & 7010 contains 2% Chrysotile asbestos
- TSI under metal jacket in Room 19, Bldg. 5021 contains 10% Chrysotile asbestos
- Cement board ceiling and Fire door in Mechanical Room 19, Bldg. 7010 is asbestos containing material
- Silver coating on built up roof between Bldgs. 7010 & 5010 is asbestos containing material
- 4x10 Boiler in Bldg. 7010 and 2 boilers in Bldgs. 5020/5021 are presumed to be asbestos containing material



Bldg 5021

Bldg 5020

REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY

**Life Environmental Services, Inc.**  
 P. O. Box 98217  
 Atlanta, GA 30359  
 404-320-9608

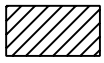
Spalding County  
 Old Fairmont School  
 3rd St. & Jefferson St.  
 Griffin, GA 30223

JOB NAME  
 DATE ISSUED  
 DRAWN BY  
 DESIGNED BY  
 CHECKED BY  
 SHEET NO.

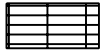
SHEET NO.

# ASBESTOS CONTAINING MATERIALS LOCATIONS DRAWING

## KEY



9x9 Floor Tile/Black Mastic is asbestos containing material



12x12 Floor Tile/Black Mastic is asbestos containing material

## NOTES:

-Wallboard/Jt. Cmpd. in Bldgs 7010 & 8010 contains 2% Chrysotile asbestos.

-Stipple ceiling in Bldgs. 7010 & 8010 contains 2% Chrysotile asbestos.

-Window glazing in Bldgs. 5020, 5021 & 7010 contains 2% Chrysotile asbestos.

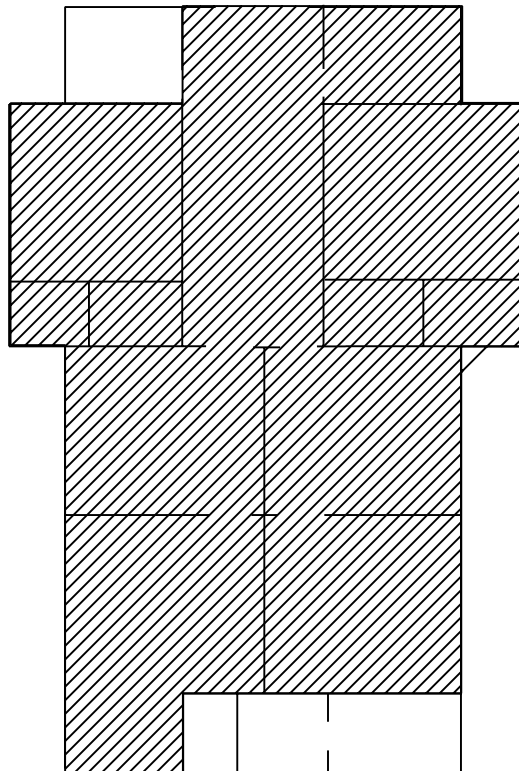
-TSI under metal jacket in Room 19, Bldg. 5021 contains 10% Chrysotile asbestos.

-Cement board ceiling and Fire door in Mechanical Room 19, Bldg. 7010 is asbestos containing material.

-Silver coating on built up roof between Bldgs. 7010 & 5010 is asbestos containing material.

-4x10 Boiler in Bldg. 7010 and 2 boilers in Bldgs. 5020/5021 are presumed to be asbestos containing material.

## Bldg 8010



ON LEHS

JOB NAME  
DATE ISSUED  
REVISED  
BY

Spalding County  
Old Fairmont School  
3rd St. & Jefferson St.  
Griffin, GA 30223

Life Environmental Services, Inc.

P. O. Box 98217  
Atlanta, GA 30359  
404-320-9608

REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY



**APPENDIX E**  
**Inspector's Certifications**

---

---

# ***The Environmental Institute***

---

---

## ***Randy Haney***

Social Security Number - 247-17-8575

Life Environmental Services, Inc. - P. O. Box 98217 - Atlanta, Georgia 30359

*Has completed coursework and satisfactorily passed  
an examination that meets all criteria required for  
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation  
and NESHAP Regulations Training*

### ***Asbestos in Buildings: Inspector & Management Planner Refresher***

May 29, 2008

Course Date

10770

Certificate Number

May 29, 2008

Examination Date

May 28, 2009

Expiration Date

  
\_\_\_\_\_  
David W. Hogue - Principal Instructor / Training Manager

  
\_\_\_\_\_  
Rachel G. McCain - Exam Administrator

