



## Grauvogel & Associates



October 5, 1995

City of South Bend  
Community and Economic Development  
1200 County-City Building  
South Bend, IN 46601

Attention: Mr. John Stark  
Subject: Asbestos-Containing Materials Survey  
814/18 South Lafayette Street

Dear John:

We have completed our survey, sampling and analysis for suspected asbestos-containing materials for this structure.. We organized these materials into 10 homogeneous areas of like materials based on the type of material, its use and its probable date of installation. There are three categories of suspected asbestos-containing friable materials (ACM): **surfacing (SM)**, which includes plaster and acoustical sprays, **thermal systems insulation (TSI)**, which includes pipe and vessel insulation, and **miscellaneous material (MM)**, which includes floor tile, ceiling tile, drywall and linoleum. The results of the sampling and analysis are summarized in the attached table.

The remaining suspect materials, floor tile and roofing, are EPA Category I regulated ACM (RACM), non-friable materials. These were assumed to contain asbestos to save analysis costs. These materials can remain in or on the building when it is demolished, but must be reported to IDEM and EPA in the required notifications.

As shown in the tables, there were no friable asbestos-containing materials identified in the building in addition to the floor tile and roofing assumed to contain asbestos. Thus, no asbestos abatement will be necessary prior to demolition of the building.

We will proceed with preparation of the IDEM notification for these Category I materials, to which you will have to add the demolition contractors name, the intended start date and a check for \$50.00. The completed form should be mailed to:

Cashier  
Department of Environmental Management  
Office of Air Management  
100 North Senate Avenue  
PO Box 6015  
Indianapolis, IN 46206-6015

814/18 South Lafayette ACM

95049 10/5/95

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Thank you for this opportunity to serve you. Please direct further questions to the undersigned at your convenience.

Sincerely,

**Grauvogel & Associates**

A handwritten signature in cursive script, appearing to read "Lawrence W. Grauvogel".

Lawrence W. Grauvogel PE, CIH, CSP

Attachments: Form 6 and Form 9 - 814/18 South Lafayette Street  
Laboratory Report - SciLab

sbend/acm/rt100595.doc



<b>Project:</b>	South Bend Redevelopment
<b>Building:</b>	814/18 South Lafayette Street

**HOMOGENEOUS AREA LOG**

HA#	Homogeneous Area (HA)	ACM ?	Friable/ Non-friable F/NF	Class SM/TSI/ MM	Size SF/LF
01	ceiling & wall plaster - base coat	N	F	SM	5,650 SF
02	drywall ceiling (behind plaster/untaped)	N	F	MM	3,000 SF
03	2' x 4' fissured ceiling tile	N	F	MM	280 SF
04	2' x 4' pinhole ceiling tile	N	F	MM	150 SF
05	linoleum	N	NF	MM	120 SF
06	ceiling & wall plaster - finish coat	N	F	SM	5,650 SF
07	chipboard ceiling (non-suspect material)	N	NF	MM	N/A
08	new drywall (untaped)	N	F	MM	100 SF
09	9" floor tile	A	NF	MM	400 SF
10	roofing felt	A	NF	MM	3,000 SF

ACM - Asbestos-containing building material, as defined by OSHA  
 A - Assumed to contain asbestos, not sampled, OSHA PACM  
 N - No: Sampled and found negative for asbestos content  
 Y - Yes: ACM, either Assumed or Known  
 K - Known: sampled and found to be ACM or non-ACM  
 F - Friable material, as defined by OSHA  
 NF - Non-friable material  
 MM - Miscellaneous material, as defined by AHERA  
 TSI - Thermal system insulation, as defined by AHERA  
 SM - Surfacing material, as defined by AHERA  
 SF - Square feet  
 LF - Linear feet





**SCIENTIFIC LABORATORIES, INC.**  
 477 Southlake Boulevard  
 Richmond, Virginia 23236  
 Phone #: 804/379-1084  
 Fax #: 804/379-1087

42 West 24th Street  
 New York, New York 10010  
 Phone #: 212/741-2053  
 Fax #: 212/741-2056

09.95.P-333

Company: <b>Grawvogel Associates</b>		Address: <b>17660 Fall Creek Drive</b>				P.O.#: <b>95049</b>						
Project Information		Analysis Type:		Turnaround Time			Air Filter Information					
Name: <b>8141B South Lakeshore St.</b>		TEM/AHERA		6-8hr	12hr	24hr	48hr	72hr	5day	other	MCE	
		TEM/Level II									EC	
		TEM/Chatfield									25mm	
		TEM/Dust									37mm	
		TEM/Water									0.45um	
Number: <b>95049</b>		PCM									0.80um	
Manager: <b>L. Grawvogel</b>		PLM									other:	
Site (City/State): <b>South Bend, IN</b>		Lead										
		Other										

Results to: **Larry Grawvogel** Return Samples Yes  No

Invoice to: **Same** Phone: **219 / 277-4170**  
 Fax: **219 / 277-5281**

Written report to: **Same** Pager: **/**

COMMENTS: **don't analyze surface paint layers**

Sample I.D.	Sample Location <small>(D)inside (O)outside (W)wall (P)personal (O)occupation</small>	Start Time	Stop Time	Total Time x	Liters / Min. =	AIR Volume	Date Collected
049-01-01	ceiling plaster - SW						9/27
-06-02	" " - SW						
-02-03	ceiling drywall						
-02-04	wall plaster - S						
-02-05	" " - S						
-01-06	ceiling plaster - N center						
-06-07	" " - N center						
-03-08	2x4 ceiling tile - furnished						
-04-09	" " - pinhole						
-01-10	wall plaster - N center						
-06-11	" " - N center						
-02-12	new drywall - brick stairs						

Released By (Signature):	Date: <b>9/27/95</b>	Received By (Signature):	Date: <b>9/29/95</b>
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Environmental Lab Services

**SCIENTIFIC LABORATORIES, INC.**

477 Southlake Blvd.

Richmond, Virginia 23236

804/379-1084 FAX: 804/379-1087

**PLM Bulk Asbestos Report**

Grauvogel & Associates  
 Attn: Larry Grauvogel  
 17660 Fall Creek Drive  
 Granger, IN 46530

Date Received 9/29/95  
 Date Examined 10/5/95

SciLab Job No. 09951333  
 P.O. # 95049  
 Page 1 of 3

RE: 814/18 South Lafayette St.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
049-01-01	09951333-01	No	NAD
Location: Ceiling Plaster-SW			
Description: Beige, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 10. %, Non-fibrous 90. %			
049-06-02	09951333-02	No	NAD
Location: Ceiling Plaster-SW			
Description: Beige, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5. %, Non-fibrous 95. %			
049-02-03	09951333-03	No	NAD
Location: Ceiling Drywall			
Description: Beige, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 20. %, Non-fibrous 80. %			
049-02-04	09951333-04	No	NAD
Location: Wall Plaster-S			
Description: Beige, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 2. %, Non-fibrous 98. %			
049-06-05	09951333-05	No	NAD
Location: Wall Plaster-S			
Description: White, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 10. %, Non-fibrous 90. %			



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 Page 2 of 3

RE: 814/18 South Lafayette St.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
049-01-06	09951333-06	No	NAD
Location: Ceiling Plaster-N Center			
Description: Beige, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 2. %, Non-fibrous 98. %			
049-06-07	09951333-07	No	NAD
Location: Ceiling Plaster-N Center			
Description: White, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100. %			
049-03-08	09951333-08	No	NAD
Location: 2x4 Ceiling Tile-Fissured			
Description: Tan, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 95. %, Non-fibrous 5. %			
049-04-09	09951333-09	No	NAD
Location: 2x4 Ceiling Tile-Pinhole			
Description: Tan, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 95. %, Non-fibrous 5. %			
049-01-10	09951333-10	No	NAD
Location: Wall Plaster-N Center			
Description: Off White/Tan, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 15. %, Non-fibrous 85. %			



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 Page 3 of 3

RE: 814/18 South Lafayette St.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
049-06-11	09951333-11.1	No	NAD
Location: Wall Plaster-N Center			
Description: White, Homogeneous, Scratch Coat			
Asbestos Types:			
Other Material: Non-fibrous 100. %			
049-06-11	09951333-11.2	No	NAD
Location: Wall Plaster-N Center			
Description: Beige, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 3. %, Non-fibrous 97. %			
049-08-12	09951333-12	No	NAD
Location: New Drywall-Basement Stairs			
Description: Off White, Homogeneous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 20. %, Non-fibrous 80. %			

## Reporting Notes:

Analyzed by: Georgie Stacy

\*NAD/NSD = no asbestos detected; NA = not analyzed; Bulk Asbestos Analysis per 40 CFR 763, Subpart F, Appendix A and ELAP Analysis Protocols 198.1/198.4 for New York samples; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This report relates ONLY to the items tested.

NBS Signatory: \_\_\_\_\_