



1090 Bristol Road
Mountainside, NJ 07092
(908) 654-8068
(800) 783-0567
Fax 908-654-8069

ASBESTOS SURVEY REPORT

Performed At:

Susan Scott
18 S West Ave
Beach Haven, NJ 08008

Performed For:

CB&I
200 Horizon Center Blvd
Trenton, NJ 08691

Prepared By:

LEW Corporation
1090 Bristol Road
Mountainside, NJ 07092

Phone (908) 654-8068
Fax (908) 654-8069

Inspection Date: 11/23/2015 08:30 am
Project Number: 150935

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CONTACT INFORMATION


Site:

Site Name:	Susan Scott
Street Address:	18 S West Ave Beach Haven, NJ 08008
Year of Construction:	1985

Client:

Client Name:	CB&I
Street Address	200 Horizon Center Blvd Trenton, NJ 08691
Phone Number:	(855) 287-7736

Asbestos Inspector:

Site Assessor Name:	Alex Salvador
AHERA Certification #:	716616
Signature:	
Date:	11/25/2015

Consultant:

Organization:	LEW Corporation
Street:	1090 Bristol Road
City, State & Zip:	Mountainside, New Jersey 07092
Phone Number:	908-654-8068
Web Address:	http://www.lewcorp.com

Laboratory:

Organization:	EMSL Analytical, Inc.
Street:	200 U.S. 130
City, State & Zip:	Cinnaminson, NJ 08077
Phone Number:	800-220-3675

Executive Summary

On 11/23/2015 08:30 am Alex Salvador, of LEW Corporation performed a limited survey for asbestos containing materials at 18 S West Ave, Beach Haven, NJ 08008. The inspection was conducted to determine the presence of asbestos containing materials (ACM) that will be impacted during the renovation, demolition and/or elevation of the residential property. Based on the laboratory analysis, building components considered to be asbestos containing materials (ACM) are listed in below. The locations listed included all those locations where the material is found along with the total approximate quantity for all those areas. Any materials that could not or were not sampled are presumed to be asbestos containing materials and listed below.

Asbestos Containing Materials Table							
HA#	Sample #	Material	Location(s)	Friable	Asbestos Content	Condition	Approximate Quantities
No Asbestos Containing Materials Identified							

Presumed Asbestos Containing Materials Table						
HA#	Sample #	Material	Location(s)	Friable	Condition	Approximate Quantities
2	N/A	Roofing Materials	House Exterior	No	Good	2,000 SF

Damaged Wall/Ceiling Materials Table		
Material	Location(s)	Condition
All Wall/Ceiling Materials are Considered in Good Condition		

Introduction

LEW Corporation was retained by CB&I to perform a limited survey at 18 S West Ave, Beach Haven, NJ 08008 for the presence of asbestos containing building materials (ACBM). The property is slated for renovation, demolition or elevation.

Asbestos Survey Procedures

The asbestos survey procedure consisted of a visual evaluation of exposed building materials to locate and identify suspect ACM. The inspector looked at material type and overall condition as well as any patchwork. Materials were assessed based upon the various types of presumed homogeneity observed throughout the facility.

LEW Corporation reminds that homogeneous sampling area contains material that is uniform in texture, color, date of application, and appears identical in every other respect. Materials installed at different times belong to separate homogeneous sampling areas. The selection of homogeneous sampling areas is a subjective process. If there is any reason to suspect that materials might be different even though they appear uniform, LEW Corporation will assign them to separate homogeneous sampling areas. For example, materials in different wings of a building on different floors, or in special areas such as cafeterias, machine shops, band rooms, etc, should be assigned to separate homogeneous sampling areas unless there is a good reason to believe that the material is identical throughout.

Since destructive sampling was not conducted, we did not demolish any parts of the building to access any hidden materials. If suspect ACM that was not previously sampled is sighted during any renovations, it should be sampled by a certified inspector or assumed to be asbestos. Attention is directed to Appendix A "General Statements Concerning Asbestos Inspections".

Samples were shipped to EMSL Analytical via Federal Express. In accordance with the Emergency Adoption by the New Jersey Health and Senior Services June 5, 2006 and clarification documentation, samples were analyzed using procedure found in "Test Method-Method for Determination of Asbestos on Bulk Building Materials" EPA 600/R-93/116, July 1993. Friable material materials were analyzed utilizing using Polarized Light Microscopy (PLM). Non-friable organically bound (NOB) materials and problem matrices were gravimetrically reduced and analyzed by PLM. If the result was less than or equal to 10% asbestos, the sample is point counted. Only when PLM analysis indicates that a sample contains 1% or less, including no asbestos, shall the sample be analyzed by Transmission Electron Microscopy (TEM).

"Wall Systems" (joint compound, tape and wallboard) were analyzed according EPA, 40 CFR Part 61, Subpart M, 55 FR 48406, Asbestos NESHAP Clarification Regarding Analysis of Multi-Layered Systems, effective on December 19, 1995. Excerpts of this clarification states:

"...This clarification basically stated that all multi-layered systems except for wall systems where joint compound was used only at the joints and nail holes must be analyzed as separate materials, and results were not allowed to be combined to determine average asbestos content

(continuing the policy that dilution of an asbestos-containing material is not allowed)..."

LEW Corporation follows AHERA (40 CFR Part 763, Subpart E) protocol for bulk sampling due to its stringency unless if applicable, other arrangements are requested by the client and agreed with LEW Corporation.

Table below contains samples taken in this survey.

Samples Collected Table					
HA	Sample #	Material	Location	Friable	App. Quantity
1	18-1	Drywall/Joint Compound	Garage	No	4,000 SF
1	18-2	Drywall/Joint Compound	Utility Room	No	4,000 SF
1	18-3	Popcorn Ceiling	Bathroom 3	No	1,000 SF
1	18-4	Popcorn Ceiling	Bathroom 2	No	1,000 SF
1	18-5	Popcorn Ceiling	Hallway	No	1,000 SF

In *Surfacing Materials* case (like fireproofing), EPA in its guidance document: *Asbestos in Buildings, Simplified Sampling Scheme for Friable Surfacing Materials* (EPA 560/5-85-03a, October 1985, AKA "Pink Book") recommends that 9 samples per homogenous area should be taken, with nine samples the likelihood of detecting asbestos when is present is very high, however, LEW Corporation might follow as a minimum the "AHERA's 3,5,7 rule" which specifies taking 3 samples per each homogenous area that is 1000 SF or less, 5 samples per each homogenous area greater than 1000 SF but less than or equal than 5000 SF, and finally 7 samples will be taken from each homogenous area that is greater than 5000 SF.

Regarding *Thermal System Insulation* case (pipes, boilers, ductworks, etc), at least three bulk samples should be taken from each homogenous area of TSI that is not assumed to be ACM. For long pipe runs or risers, more samples should be taken, especially if the piping extends to more the one *functional space* (spatially distinct units within a building which contain identifiable populations of building occupants). One bulk sample from each homogenous area of patched TSI that is not assumed to be ACM if the patched section is less than 6 linear or square feet.

For the case of *Miscellaneous Materials* (for the most part non-friable like transite or floor tiles; ceiling tiles are an exception), EPA does not recommend sampling them. Instead, they should be identified as suspect and documented as such in permanent records. Some building owners might wish to have miscellaneous materials sampled and analyzed anyway. If sampling is desired LEW Corporation will try to identify separate homogeneous areas just as it would be done for surfacing materials or thermal insulation. Then, convenience samples will be collected in inconspicuous locations.

LEW Corporation reminds that homogeneous sampling area contains material that is uniform in texture, color, date of application, and appears identical in every other respect. Materials installed at different times belong to separate homogeneous sampling areas. If there is any reason to

suspect that materials might be different even though they appear uniform, LEW Corporation will assign them to separate homogeneous sampling areas. For example, materials in different wings of a building on different floors, or in special areas such as cafeterias, machine shops, band rooms, etc, should be assigned to separate homogeneous sampling areas unless there is a good reason to believe that the material is identical throughout.

In a large multi-story building (more than 10 stories), a separate homogeneous sampling area for each floor may not be necessary. If the material appears identical on every floor, several floors can be grouped into one homogeneous sampling area. LEW Corporation will not group floors if it is known that the material was applied at different times, or if there is some other reason to suspect that the material might not be homogeneous. The selection of homogeneous sampling areas is a subjective process.

ACM TYPE	SIZE OF HOMOGENEOUS AREA	MINIMUM NO. OF SAMPLES
Surfacing Materials	less than or equal to 1000 square feet (sf)	3
	greater than 1000 sf and less than 5000 sf	5
	greater than 5000 sf	7
Thermal System Insulation	areas not assumed to be ACM	3
	patched areas (<6 linear feet (lf) or 6 sf)	1
Miscellaneous Material	sufficient samples from areas that are not assumed to contain ACM	2

If PACBM that was not previously sampled is sighted during any renovations, it should be sampled by a certified inspector or assumed to be asbestos. Attention is directed to Appendix A "General Statements Concerning Asbestos Inspections".

Positive Laboratory Results

Table 3 below indicates the positive laboratory results. Asbestos containing material means any material that contains more than one percent asbestos by weight. Friable asbestos material means that it is capable of being crumpled, pulverized, or reduced to powder by hand pressure and normally non-friable material that during abatement process could be rendered friable as defined by EPA.

Positive Sample Results Table			
Sample #	Type	Location	% Asbestos
None			

Appendix A Lab Support Documents



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 041534903
Customer ID: LEWC50
Customer PO:
Project ID:

Attn: Lab Results
LEW Corporation
1090 Bristol Road
Mountainside, NJ 07092

Phone: (908) 654-8068
Fax: (908) 654-8069
Collected: 11/23/2015
Received: 11/24/2015
Analyzed: 11/25/2015

Proj: 150935 18 S. West Avenue Beach Haven NJ 08008

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: 18-1-Drywall

Lab Sample ID: 041534903-0001

Sample Description: Garage/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2015	Brown/White	25%	75%	None Detected	

Client Sample ID: 18-1-Joint Compound

Lab Sample ID: 041534903-0001A

Sample Description: Garage/Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2015	White	0%	100%	None Detected	

Client Sample ID: 18-2-Drywall

Lab Sample ID: 041534903-0002

Sample Description: Utility Room/Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2015	White	5%	95%	None Detected	

Client Sample ID: 18-2-Joint Compound

Lab Sample ID: 041534903-0002A

Sample Description: Utility Room/Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2015	White	0%	100%	None Detected	

Client Sample ID: 18-3

Lab Sample ID: 041534903-0003

Sample Description: Bathroom 3/Popcorn Ceiling

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2015	White	0%	100%	None Detected	

Client Sample ID: 18-4

Lab Sample ID: 041534903-0004

Sample Description: Bathroom 2/Popcorn Ceiling

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2015	White	0%	100%	None Detected	

Client Sample ID: 18-5

Lab Sample ID: 041534903-0005

Sample Description: Hall/Popcorn Ceiling

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2015	White	0%	100%	None Detected	



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 041534903
Customer ID: LEWC50
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Analyst(s):

Alexis Kum PLM (3)
Juli Patel PLM (4)

Reviewed and approved by:

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM alone is not consistently reliable in detecting asbestos in floor coverings and similar NOBs.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

Initial report from: 11/25/2015 09:20:46

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

041534903

Company: LEW Corporation		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 1090 Bristol Rd		Third Party Billing requires written authorization from third party	
City: Mountainside	State/Province: NJ	Zip/Postal Code: 07092	Country: United States
Report To (Name):		Telephone #: 9086548068	
Email Address: labresults@lewcorp.com		Fax #: 9086548069	Purchase Order:
Project Name/Number: 150935		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: NJ		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PLM - Bulk (reporting limit)		TEM - Bulk	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1	
<input type="checkbox"/> PLM EPA NOB (<1%)		<input type="checkbox"/> NY ELAP Method 198.4 (TEM)	
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> Chatfield Protocol (semi-quantitative)	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	
<input type="checkbox"/> NIOSH 9002 (<1%)		<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)		Other	
<input type="checkbox"/> OSHA ID-191 Modified		<input checked="" type="checkbox"/> NOB-TEM Only	
<input type="checkbox"/> Standard Addition Method			
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Date Sampled: 11/23/15	
Samplers Name: Alex Salvador		Samplers Signature: [Signature]	
Sample #	HA #	Sample Location	Material Description
18-1	1	garage	Drywall/Floor Compound
2	1	utility room	" " "
3	1	Bathroom 3	popcorn ceiling
4	1	Bathroom 2	" "
5	1	Hall	" "
			15 NOV 24 AM 10:55
Client Sample # (s): 18-1 - 18-5			Total # of Samples: 5
Relinquished (Client): [Signature]		Date: 11/23/15	Time:
Received (Lab): [Signature]		Date: 11/24/15	Time: 940
Comments/Special Instructions:			
Site Address: 18 S. West Avenue			

Appendix B Photograph(s)

LEW Corporation is not responsible for the quality of the pictures, nor the clarity, content or the detail.



drywall utility room



pop corn ceiling bathroom 3



popcorn ceiling bathroom 2



pop corn ceiling hall



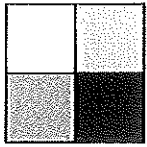
drywall garage



condo exterior

Appendix C Floor/Site Plan(s)

Drawings not to scale.



LEW
Corporation

"The Environmental Company"

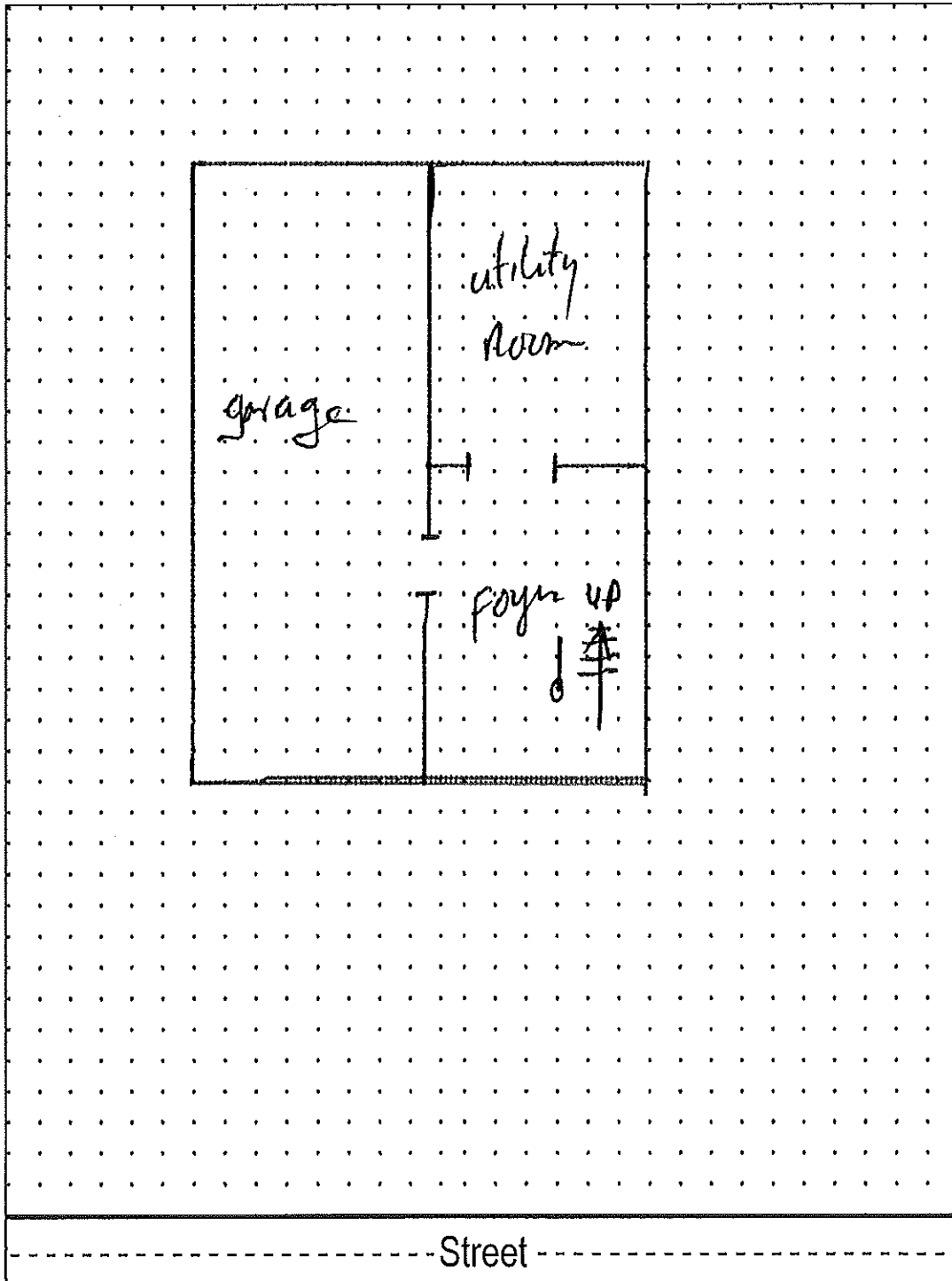
1090 Bristol Road
Mountainside, NJ 07092
(908) 654-8068
(800) 783-0567
Fax (908) 654-8069
www.lewcorp.com

Site: 18 S West Avenue 1st floor

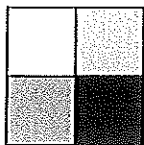
C wall

B wall

D wall



A wall



LEW
Corporation

"The Environmental Company"

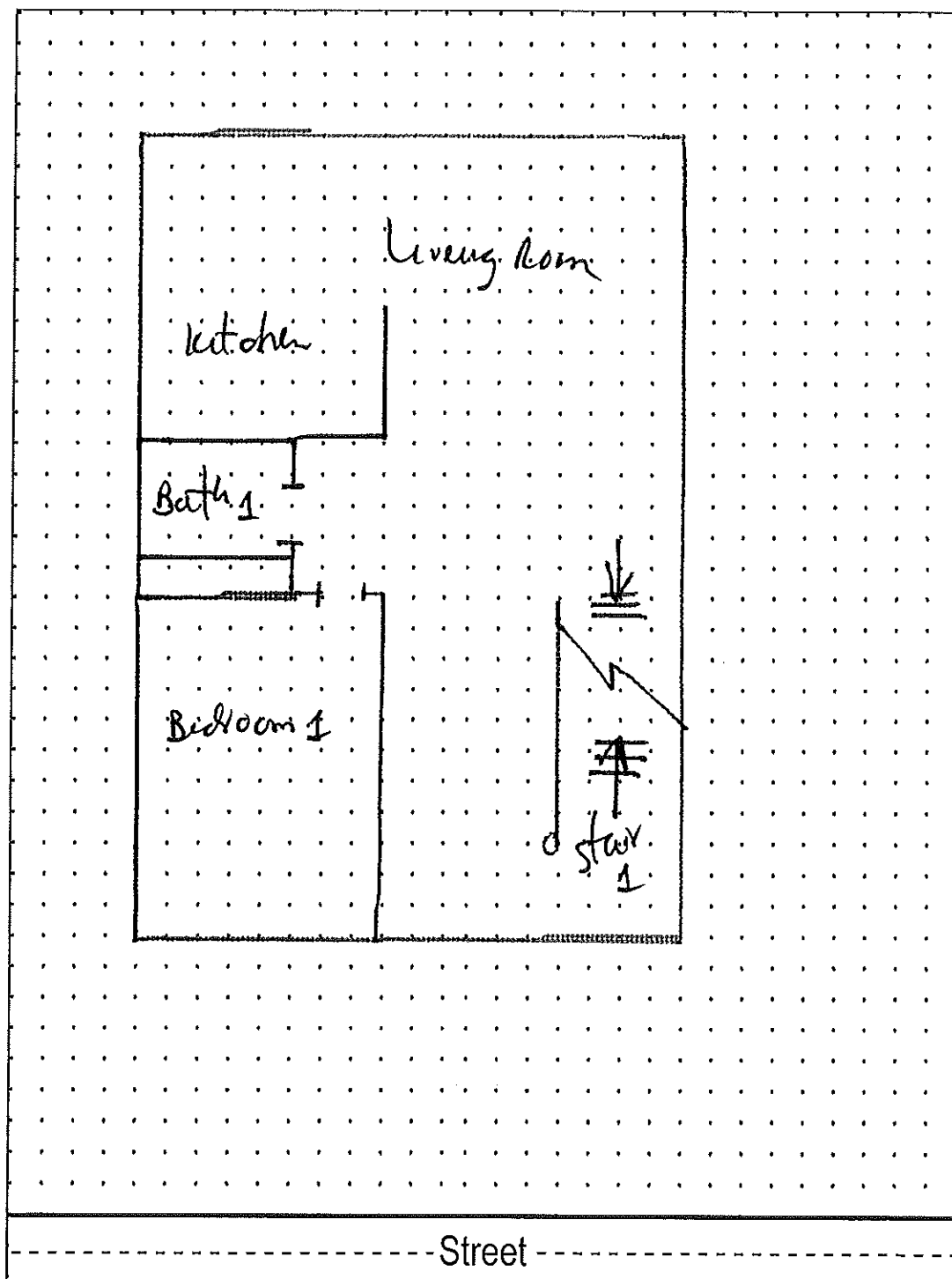
1090 Bristol Road
Mountainside, NJ 07092
(908) 654-8068
(800) 783-0567
Fax (908) 654-8069
www.lewcorp.com

Site: 18 S West Avenue 2nd level

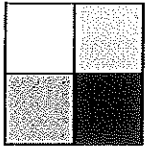
C wall

B wall

D wall



A wall

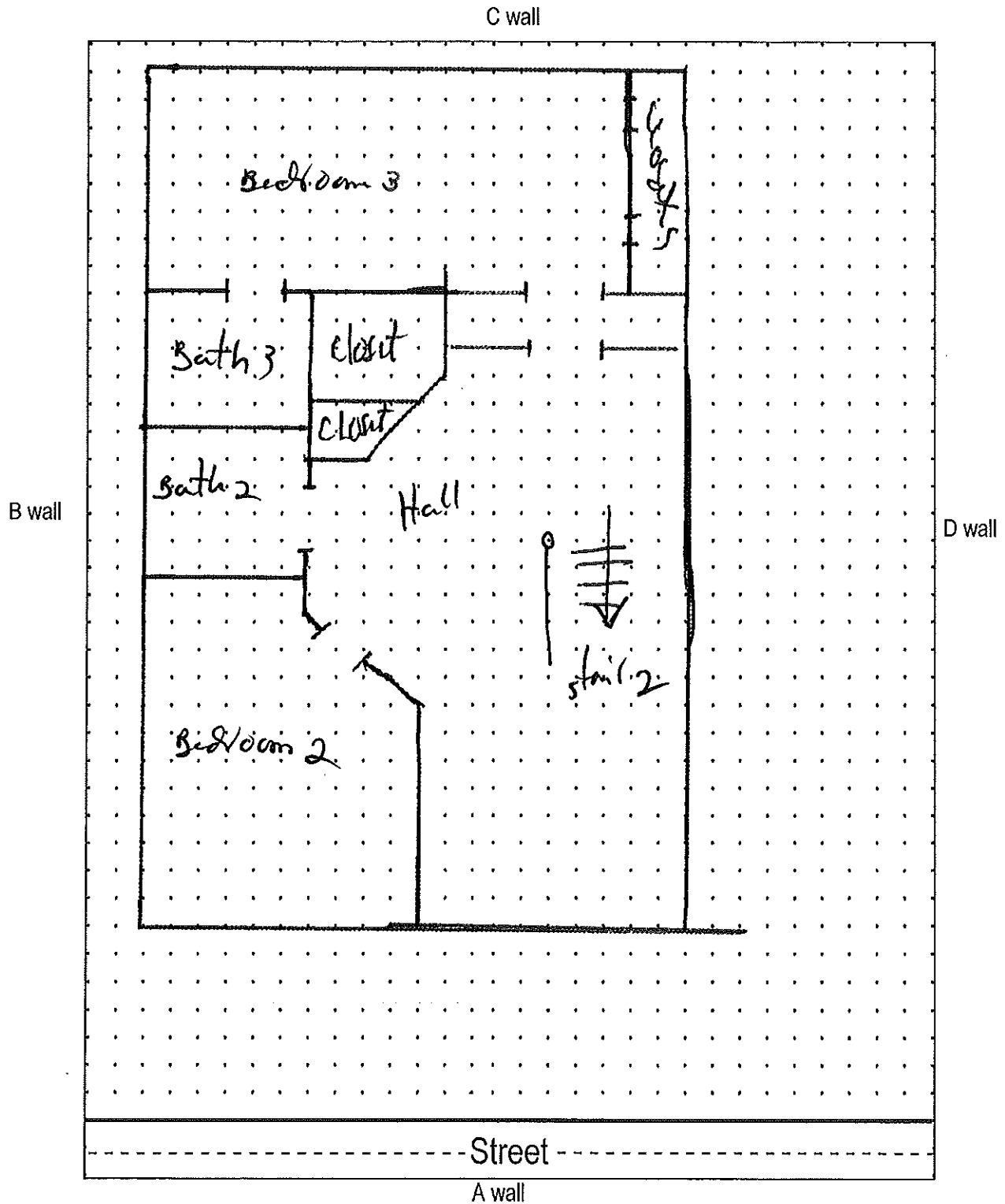


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Corporation

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Mountainside, NJ 07092
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(800) 783-0567
Fax (908) 654-8069
www.lewcorp.com

Site: 18 S West Avenue 3rd level.



Appendix D Building Inspector Certifications

Big Apple Occupational Safety Inc

505 Eighth Avenue, #2305, New York, NY 10018
(212) 564-7656

This Is To Certify That

Alex Salvador

SS#: xxx-xx-xxxx

has successfully completed the New York State Department of Health approved course entitled
This course meets requirements of TSCA Title II

Inspector Refresher

*(The official record of successful completion is the DOH 2832 Certificate of completion
New York State Department of Health Certificate of Asbestos Safety Training)*


Course Date: 01/09/2015

Expiration Date: 01/09/2016

Examination Date: 01/09/2015

Examination Grade: 92%

Certificate Number: 716616


Radha Reddy
Training Director