

August 8, 2013

Mr. Richard Higgins Norstar Development USA, L.P. 733 Broadway Albany, New York 12207

Re: Asbestos Containing Material Survey

Baker Commons

106 Packard Street, Ann Arbor, Michigan

ERG Project 1125.002

Dear Mr. Higgins,

Environmental Resources Group, LLC (ERG) has completed the pre-renovation asbestos containing material survey (ACM Survey) for the referenced property in Ann Arbor, Michigan.

ERG contracted American Environmental Consultants (AEC) to perform the survey. The asbestos survey was performed on April 17 and 18, 2013 by an accredited Asbestos Inspector in general accordance with NESHAP Guidelines, with the focus on satisfying the regulatory ACM information requirements for building renovation activities. The pre-renovation ACM survey targeted readily accessible building materials and included the collection and analysis of bulk samples. Samples were analyzed by the polarized light microscopy (PLM) method.

The results of the pre-renovation ACM survey indicated that white sink glazing was found to contain asbestos and is deemed an ACM. No other ACMs were identified in the building.

Please refer to the attached AEC report for survey details and analytical results.

Thank you for the opportunity to provide this service to you. If you have any questions, please contact us at 248-773-7986.

Sincerely,

ENVIRONMENTAL RESOURCES GROUP, LLC

Andrew J. Foerg, CPG Senior Project Manager

Enclosures

ASBESTOS CONTAINING MATERIALS SURVEY

FOR THE PROPERTY AT:

106 Packard Ann Arbor, MI



PREPARED FOR:

ERG

PERFORMED BY:

American Environmental Consultants, LLC 12838 Gavel Detroit, Michigan 48227

Ph: (313) 491-2600 Fax: (313) 491-2601 www.aecmi.net

DATE:

4/17-4/18/2013

PROJECT NUMBER:

1459-13009



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Project Number: 1459-13009

Executive Summary

American Environmental Consultants, LLC (AEC) was contracted by ERG to perform an Asbestos Containing Materials (ACM) Survey at Baker Commons in Ann Arbor, MI. The survey was completed on April 17-18, 2013.

The following is a summary of the asbestos containing materials identified in the building which will require special handling during any renovation or demolition activities.

• 380 SF of Sink Glazing

Introduction

Matt Rodgers (Inspector #A-34641) of AEC, gained access to the property on 4/17 and 4/18/2013. AEC was to complete an asbestos containing materials survey of accessible areas of the subject property. The subject property is scheduled for renovation. AEC visually identified and sampled suspect asbestos containing materials.

AEC was allowed access to all interior/exterior areas of the building. AEC attempted to inspect for hidden asbestos containing materials without disturbing the structure or integrity of the subject property.

Observations

AEC inspected all of the areas of the subject property. The interior finishing components were drywall, (12x12) floor tile, linoleum, door and window caulk, and ceiling tiles. AEC has attached site pictures in Appendix C depicting the site conditions.

Methodology

The survey was completed in accordance with the regulations stated in the Asbestos Hazard Emergency Response Act (AHERA) and the National Emission Standards For Hazardous Air Pollutants (NESHAP). A modified triplicate random sampling method of homogeneous area materials was utilized for the sampling procedure. The modified sampling procedure performed was 3-7 samples for surfacing materials, 3 samples for thermal systems insulation, and 3 samples for miscellaneous materials. The samples were collected in a manner to prevent release of fibers while sampling the suspect asbestos containing materials (SACM). Utensils were cleaned after each sample was collected to prevent cross contamination of samples. AEC personnel took personal protective measures. The individual samples were placed into airtight leak proof labeled containers to be transported to the laboratory.

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The samples were submitted under chain of custody to EMSL Analytical, Inc. in Ann Arbor, Michigan for bulk sample analysis. The laboratory is an American Industrial Hygiene Association (AIHA) accredited laboratory. A standard turn-around time was indicated on the Chains of Custody.

The bulk samples were analyzed by EMSL in general accordance with the protocols described in the EPA 600/R-93/116 Method for bulk sample analysis. This method utilizes polarized light microscopy (PLM) for the detection of asbestos fibers. Asbestos cannot accurately be detected with this method if the materials contain less than 10% asbestos and the EPA recommends that the samples be re-analyzed by the EPA Point Count Method. All 1% or less asbestos containing samples will be deemed non-asbestos containing for the purposes of this survey.

Results

Samples were collected of 39 visible suspect asbestos containing material homogeneous sampling areas. Based on appearances and type of materials, suspect ACMs were grouped into homogeneous sampling areas (HA) and representative bulk samples were collected. For example: ceiling tile located in different functional spaces (i.e., living room and bedrooms) found to be uniform in texture, color and appeared similar in every other aspect was considered one HA. AEC attempted to collect at least three samples of the various homogeneous materials where possible and practical or as necessary.

The laboratory analyzed a total of 234 samples including layers. The laboratory can separate individual samples into homogeneous layers at their discretion. The following table displays the homogeneous area materials sampled:

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Table 1 Baker Commons 4/17-4/18/2013

Sampled ACM and Laboratory Results

Sample Number	Material Description and General Location	Homogeneous Area	Quantity*	Friable(F)/Non Friable(NF) and Condition	Asbestos Present (Y/N)- % Type
1 DC A D	Drywall Systems Walls- White				
1-DS-A,B, C,D,E,F, G,H, I, J	103 Kitchen, 108 Bathroom, 201 Living Room, 210 Living Room, 302 Kitchen, 312 Kitchen, 401 Bedroom, 410 Hall Outside of Unit, 508 Hall Outside of Unit, and 514 Hall Outside of Unit		70,000 SF	F- Good	N
Drywall System Ceiling- White 2-DS-A,B,					
C,D,E,F, G,H,I,J	108 Bathroom, 111 Bathroom, 201 Kitchen, 207 Bathroom, 305 Kitchen, 311 Bathroom, 408 Hall, 501 Living Room, 508 Hall Outside Unit, and 509 Living Room	HA-2	21,000 SF	F-Good	N
3-TC-A,B,C	Textured Ceilings	НА-3	150 SF	F- Good	N
	103 Living Room				
4-LN-A,B,C	12" x 12" Block Linoleum- White	HA-4	3,700 SF	NF- Good	N
4-LN-A,b,C	109 Kitchen, 310 Kitchen, 410 Living Room	1174-4	3,700 SI	NI- Good	11
5-WC-	Window Caulk	HA-5	2,500 SF	NF-Good	N
A,B,C	108 Living Room, 212 Living Room, 410 Living Room		,		
	4" Baseboard- Teal	TIA 6	1 (00 00	NE C 1	N
6-BB-A,B,C	214 Living Room, 401 Living Room, 510 Living Room	НА-6	1,600 SF	NF- Good	N



Sample Number	Material Description and General Location	Homogeneous Area	Quantity*	Friable(F)/Non Friable(NF) and Condition	Asbestos Present (Y/N)- % Type
	4" Baseboard- Grey	11. Z	000 1 F	NT C 1	N
7-BB-A,B,C	109 Living Room, 211 Living Room, 405 Entry	НА-7	900 LF	NF-Good	N
	4" Baseboard-Tan	TIA O	1 000 1 E	NE C. 1	NT
8-BB-A,B,C	110 Kitchen, 202, Kitchen, 305 Kitchen	HA-8	1,800 LF	NF- Good	N
9-BB-A,B,C 4" Baseboard- Brown 111 Living Room, 408 Hall, 514 Entry		НА-9	1,780 LF	NF-Good	N
10-BB-	4" Baseboard-Beige	114 10	200 I E	NE Cood	N
A,B,C	113 Bathroom, 312 Bathroom, 508 Hall	HA-10	300 LF	NF-Good	N
	Textured Ceiling on Concrete- White				
11-TC-A,B, C,D,E, F,G,H	209 Living Room, 303 Outside of Unit, 401 Living Room, 211 Living Room, 412 Living Room, 308 Living Room, Trash Room 3 rd Floor, Trash Room 2 nd Floor	HA-11	10,000 SF	F-Good	N
12-SG-A,B,	Sink Glazing-White	HA-12	380 SF	F-Good	Y- 12%
C,D,E	207 Kitchen, 301 Kitchen, 305 Kitchen, 405 Kitchen, 501 Kitchen	HA-12	380 SF	F-G000	Chrysotile
13-CT-	2' x 2' Rough Texture Ceiling Tile- White	HA-13	1,500 SF	F-Good	N
A,B,C	North Side 1 st Floor, Middle of 1 st Floor near Office, South Side 1 st Floor		-,- : 0	2 233	
14-FL- A,B,C	Roof Flashing-Green South End of Roof, North End of Roof, Middle of Roof	HA-14	1,000 SF	NF-Good	N

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Sample Number	Material Description and General Location Homogeneous Area Quanti		Quantity*	Friable(F)/Non Friable(NF) and Condition	Asbestos Present (Y/N)- % Type
15-RM- A,B,C	Roof Material- Tan South End of Roof, North End of Roof, Middle of Roof	HA-15	1,500 SF	NF-Good	N
16-PI-A,B, C,D,E,F,G	2" Pipe Insulation- White South/ North Stairs 3 rd ,4 th ,5 th Floors, North Stairs 2 nd Floor	HA-16	1,500 LN	F-Good	N
17-PF-A,B, C,D,E,F,G	2" Pipe Fitting- White 17-PF-A,B, North / South Stairs on the 2 rd 4 th HA-17		60 LF	F-Good	N
18-LN- A,B,C	Linoleum Flooring-Blue 1 st ,3 rd , and 5 th , Floor Trash Room	HA-18	550 LF	NF-Good	N
19-PI- A,B,C	3" Pipe Insulation- White North and East end of Basement	HA-19	200 LN	F-Good	N
20-PF- A,B,C	3" Pipe Fitting North and East End of Basement	HA-20	80 LN	F-Good	N
21-PI- A,B,C	8" Pipe Insulation-White North, South and East Ends of the Basement	HA-21	200 LF	F-Good	N
22-PF- A,B,C	8" Pipe Fitting North, South, and East Ends of the Basement	HA-22	80 LN	F-Good	N
23-PI- A,B,C	12" Pipe Insulation-White South End of Basement	HA-23	60 LF	F-Good	N



Sample Number	Material Description and General Location	Homogeneous Area	Quantity*	Friable(F)/Non Friable(NF) and Condition	Asbestos Present (Y/N)- % Type	
24-PF-	12" Pipe Fitting	HA-24	110 SF	F-Good	N	
A,B,C	South End of Basement					
25-FT- A,B,C	12" x 12" Floor Tile Orange 1st, 3rd, and 5th Floor halls	HA-25	10,000 SF	NF-Good	N	
26-TI-	Tank Insulation-Black	***	400 97			
A,B,C	West End of Basement	HA-26	100 SF	NF-Good	N	
27-FPI- A,B,C	Foam Pipe Insulation-Black	HA-27	50 LF	NF-Good	N	
А,В,С	West End of Basement					
28-SO- A,B,C	Spray-On Insulation- White	HA-28	300 LF	F-Good	N	
А,Б,С	North and East End of Basement					
29-DS-	Drywall System-Walls	HA-29	200 SF	F-Good	N	
A,B,C	Middle of North and East Wall Basement	1111-29	200 51	1-0000	11	
30-PI-	18" Domestic Water Line	HA-30	2 LF	F-Good	N	
A,B,C	Basement Across From Elevator					
31-CT- A,B,C	2' x 2' Rough Texture Ceiling Tiles-White	HA-31	400 SF	F-Good	N	
,,-	Lunch Room, Dining Room, and 1 st Floor Common Area					

Window Caulk-Brown

2nd Floor Balcony

32-WC-

A,B,C

N

NF-Good

400 LN

HA-32



Sample Number	Material Description and General Location	Homogeneous Area	Quantity*	Friable(F)/Non Friable(NF) and Condition	Asbestos Present (Y/N)- % Type	
33-CT- A,B,C	2' x 2' Smooth Ceiling Tile- White	HA-33	150 SF	F-Good	N	
	2 nd Floor Office					
34-CT- A,B,C	2' x 2' Pinhole Ceiling Tile-White	HA-34	200 SF	F-Good	N	
А,Б,С	2 nd Floor Laundry Room					
35-DC-	Door Caulk-Brown	HA-35	30 LF	NF-Good	N	
A,B,C	2 nd Floor Balcony					
36-WC-	Window Caulk-Brown	HA-36	5,000 LF	NF-Good	N	
A,B,C	1 st Floor Exterior Windows on North, East, and South Sides	11A-30	3,000 LI	N1'-0000	IN	
37-FT-	12" x 12" Floor Tile-Red	HA-37	50 SF	NF-Good	N	
A,B,C	Lobby and Lunch Room					
38-FT-	12" x 12" Floor Tile- Yellow	HA-38	100 SF	NF-Good	N	
A,B,C	Lunch Room, Elevator, 1 st Floor Lobby	111 50	100 51	111 0000	11	
39-FT- A B C	12" x 12" Floor Tile- Blue	HA-39	200 SF	NF-Good	N	

^{*}Quantities are estimated

1st Floor Lobby

A.B.C

The laboratory Certificates of Analysis and Chain of Custodies are located in Appendix B for further review.

The friable and non-friable classification in the table describes how easily the material can be broken apart. A friable material is a material that can be crushed/pulverized by human pressure. A non-friable material is a material that cannot be crushed/pulverized by human pressure. The condition is a classification of the physical state that the material is in at the time of the sampling. There are three physical condition assessments that are applied to the condition of the material: good condition, damaged condition, and severely damaged condition. A material in

Project Number: 1459-13009

good condition has no visible damage or deterioration. A material in a damaged condition has damage or deterioration on less than ten percent of the surface. A material that is severely damaged has damage or deterioration on ten percent or more of the surface area.

Asbestos Containing Materials

The following table describes the ACM that was identified as a result of the sampling.

Table 2
Baker Commons
Asbestos Containing Materials

Asbestos Containing Material	Locations	Quantity*
Sink Glazing-White	Kitchens	380 SF

^{*}Quantities are estimated

The white sink glazing was found to contain asbestos and is deemed an asbestos containing material.

Removal Options, Recommendations

Sink Glaze

If the sink glaze is disturbed during renovation activities then, sink glaze shall be removed in properly constructed negative pressure containment with personnel wearing proper PPE. However, if the entire component is removed with the sink glaze intact, the component may be removed, double wrapped, tagged and disposed of accordingly.

Conclusion

Asbestos containing materials were identified at the subject property and will require special handling and disposal if disturbed during renovation activities. The white sink glaze was found to contain asbestos. Proper precautions and abatement must be used if disturbed.

Limitations

The information and opinions obtained in this report are for the exclusive use of AEC's Client. No distribution to or reliance by other parties may occur without the express written permission

Project Number: 1459-13009

of AEC. AEC will not distribute this report without your written consent or as required by law or Court order. The information and opinions that are contained in this report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AEC (which is expressly required prior to any third party release), expressly agrees to be bound by the original terms and conditions entered into by AEC and Client.

Subject to the above terms and conditions, AEC accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages. Although AEC believes that the results contained herein are reliable, AEC cannot warrant or guarantee that the information provided is exhaustive or that the information provided by Client or third parties is complete or accurate.

AEC appreciates the opportunity to be of service to your organization and looks forward to working with you on future projects. If you have any questions regarding this report please feel free to contact us at our office at 313-491-2600.

Sincerely,

American Environmental Consultants, LLC

Jeffrey A. Fox Project Manager

, Q XO

Project Number: 1459-13009

Appendix A Site Maps

NOT TO SCALE PROJECT NO: 1459-13009 DATE: 4/17-18/13 Stairwell Ph: 313-491-2600 Fax: 313-491-2601 12838 Gavel, Detroit, MI 48227 Kitchen MAP DESCRIPTION: Baker commons 1st floor Office CONSULTANTS, L.L.C. ENVIRONMENTAL Elevators - AMERICAN Cafeteria DRAWN BY: Matthew Rodgers Stairwell FIGURE #: 1

NOT TO SCALE **PROJECT NO:** 1459-13009 DATE: 4/17-18/13 Stairwell Ph: 313-491-2600 Fax: 313-491-2601 12838 Gavel, Detroit, MI 48227 MAP DESCRIPTION: Baker commons 2nd floor Laundry Trash CONSULTANTS, L.L.C. ENVIRONMENTAL Elevators Deck - AMERICAN Office Trash DRAWN BY: Matthew Rodgers Stairwell FIGURE #: 2

NOT TO	PROJECT NO: 1459-13009	DATE: 4/17-18/13
Elevators	ENVIRONMENTAL CONSULTANTS, L.L.C. Ph.: 313-491-2600 Fax: 313-491-2601	MAP DESCRIPTION: Baker commons Basement
	FIGURE #: 3	DRAWN BY: Matthew Rodgers

NOT TO SCALE PROJECT NO: 1459-13009 DATE: 4/17-18/13 Stairwell Ph: 313-491-2600 Fax: 313-491-2601 12838 Gavel, Detroit, MI 48227 MAP DESCRIPTION: Baker commons floor 3-5 Trash CONSULTANTS, L.L.C. ENVIRONMENTAL Elevator Lobby Elevators - AMERICAN Trash DRAWN BY: Matthew Rodgers Stairwell FIGURE #: 4

	Living Room	
	Kitchen	
		NOT TO SCALE
FIGURE #: 5	12838 Gavel, Detroit, MI 48227 ENVIRONMENTAL Ph: 313-491-2601 Pax: 313-491-2601	2601 PROJECT NO: 1459-13009
DRAWN BY: Matthew Rodgers	MAP DESCRIPTION: Baker commons typical unit	DATE: 4/17-18/13

Project Number: 1459-13009

Appendix B Certificates of Analysis



212 South Wagner Road, Ann Arbor, MI 48103

Phone/Fax: (734) 668-6810 / (734) 668-8532

http://www.emsl.com annarborlab@emsl.com EMSL Order:

081300910 AECL77

CustomerID: CustomerPO:

ProjectID:

Jef Fox

American Environmental Consultants P.O. Box 32865

12838 Gavel Detroit, MI 48227 Phone: Fax:

(313) 491-2600

Received:

(313) 491-2601

Analysis Date:

04/19/13 12:00 PM 4/24/2013

Collected:

Project: Baker Commons

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

					Non-Asbestos			
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type		
1-DS-A 081300910-0001	Drywall	Gray/White Fibrous Homogeneous	10%	Cellulose	90% Non-fibrous (other)	None Detected		
1-DS-A 081300910-0001A	Joint Compound	Gray Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected		
1-DS-B 081300910-0002	Drywall	Gray Fibrous Homogeneous	12%	Cellulose	88% Non-fibrous (other)	None Detected		
1-DS-B 081300910-0002A	Joint Compound	Gray/White Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected		
1-DS-C 081300910-0003	Drywall	Gray Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected		
1-DS-C 081300910-0003A	Joint Compound	Gray/White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected		
1-DS-D 081300910-0004	Drywall	Gray Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected		
1-DS-D 081300910-0004A	Joint Compound	White Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected		

Analyst(s)

Jamie Laginess (82) Orlando J. Ivey II (63)

Ryan Shannon (89)

Chris Dojlidko, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI NVLAP Lab Code 101048-4



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12838 Gavel Detroit, MI 48227 Phone: Fax:

(313) 491-2600

Received:

(313) 491-2601 04/19/13 12:00 PM

Analysis Date:

4/24/2013

Collected:

Project: Baker Commons

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			estos	Asbestos		
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
1-DS-E 081300910-0005	Drywall	Gray Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected
1-DS-E 081300910-0005A	Joint Compound	White Fibrous Homogeneous	3%	Wollastonite	97% Non-fibrous (other)	None Detected
1-DS-F 081300910-0006	Drywall	Gray Fibrous Homogeneous	10%	Cellulose	90% Non-fibrous (other)	None Detected
1-DS-F 081300910-0006A	Joint Compound	Gray/White Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
1-DS-G 081300910-0007	Drywall	Gray/Tan Fibrous Heterogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected
1-DS-G 081300910-0007A	Joint Compound	Gray Non-Fibrous Homogeneous	2% <1%	Wollastonite Cellulose	98% Non-fibrous (other)	None Detected
1-DS-H 081300910-0008	Drywall	Brown/Gray Fibrous Heterogeneous	50%	Cellulose	50% Non-fibrous (other)	None Detected
1-DS-H 081300910-0008A	Joint Compound	Gray Non-Fibrous Homogeneous	5% <1%	Cellulose Wollastonite	95% Non-fibrous (other)	None Detected

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Analysis Date:

04/19/13 12:00 PM 4/24/2013

Collected:

Project: Baker Commons

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-Asbe	<u>estos</u>	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
1-DS-I 081300910-0009	Drywall	Brown/Gray Fibrous Heterogeneous	30% <1%		70% Non-fibrous (other)	None Detected	
1-DS-I 081300910-0009A	Joint Compound	Gray Non-Fibrous Homogeneous	10%	Wollastonite	90% Non-fibrous (other)	None Detected	
1-DS-J 081300910-0010	Drywall	Brown/Gray/Tan Fibrous Heterogeneous	25% <1%	Cellulose Glass	75% Non-fibrous (other)	None Detected	
1-DS-J 081300910-0010A	Joint Compound	Gray Non-Fibrous Homogeneous	<1% 5%	Cellulose Wollastonite	95% Non-fibrous (other)	None Detected	
2-DS-A 081300910-0011	Drywall	Gray Fibrous Homogeneous	6%	Cellulose	94% Non-fibrous (other)	None Detected	
2-DS-A 081300910-0011A	Joint Compound	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected	
2-DS-B 081300910-0012	Drywall	Gray Fibrous Homogeneous	10%	Cellulose	90% Non-fibrous (other)	None Detected	
2-DS-B 081300910-0012A	Joint Compound	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected	

Analyst(s)

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Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI NVLAP Lab Code 101048-4



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P.O. Box 32865 12838 Gavel Detroit, MI 48227 Phone: Fax:

(313) 491-2600

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				Non-Asi	bestos	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
2-DS-C 081300910-0013	Drywall	Gray Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected	
2-DS-C 081300910-0013A	Joint Compound	White Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	None Detected	
2-DS-D 081300910-0014	Drywall	Gray Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected	
2-DS-D 081300910-0014A	Joint Compound	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected	
2-DS-E 081300910-0015	Drywall	Gray Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected	
2-DS-E 081300910-0015A	Joint Compound	Gray/White Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected	
2-DS-F 081300910-0016	Drywall	Gray Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected	
2-DS-F 081300910-0016A	Joint Compound	Gray Fibrous Homogeneous	3%	Cellulose	97% Non-fibrous (other)	None Detected	

Analyst(s)

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Ryan Shannon (89)

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Non-Asbestos Asl

				Non-Asbe	estos	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
2-DS-G	Drywall	Brown/Gray	30%	Cellulose	70% Non-fibrous (other)	None Detected	
081300910-0017		Fibrous Heterogeneous					
			No joint co	mpound present			
2-DS-H	Drywall	Brown/Gray	40%	Cellulose	60% Non-fibrous (other)	None Detected	
081300910-0018		Fibrous Heterogeneous					
2-DS-H	Joint Compound	Tan	8%	Cellulose	90% Non-fibrous (other)	None Detected	
081300910-0018A		Non-Fibrous Homogeneous	2%	Wollastonite			
2-DS-I	Drywall	Brown/Gray	15%	Cellulose	85% Non-fibrous (other)	None Detected	
081300910-0019		Fibrous Heterogeneous	<1%	Glass			
2-DS-I	Joint Compound	White	8%	Wollastonite	92% Non-fibrous (other)	None Detected	
081300910-0019A		Non-Fibrous Homogeneous	<1%	Cellulose			
2-DS-J	Drywall	Gray/Tan	10%	Cellulose	90% Non-fibrous (other)	None Detected	
081300910-0020		Fibrous Heterogeneous					
2-DS-J	Joint Compound	White	5%	Wollastonite	95% Non-fibrous (other)	None Detected	
081300910-0020A		Non-Fibrous Homogeneous	<1%	Cellulose			
3-TC-A	Textured Ceiling	Tan/Beige			100% Non-fibrous (other)	None Detected	
081300910-0021		Non-Fibrous Homogeneous					

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Non-Asbestos

Asbestos

Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
3-TC-B 081300910-0022	Textured Ceiling	Gray/Tan/Beige Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
3-TC-C 081300910-0023	Textured Ceiling	Tan Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
4-LN-A 081300910-0024	Linoleum	Gray Fibrous Heterogeneous	25%	Cellulose	75% Non-fibrous (other)	None Detected
4-LN-B 081300910-0025	Linoleum	Gray Fibrous Heterogeneous	15% 2%	Cellulose Glass	83% Non-fibrous (other)	None Detected
4-LN-C 081300910-0026	Linoleum	Gray/Tan Fibrous Heterogeneous	60% 6%	Cellulose Glass	34% Non-fibrous (other)	None Detected
4-LN-C 081300910-0026A	Adhesive	Yellow Non-Fibrous Homogeneous	10%	Cellulose	90% Non-fibrous (other)	None Detected
5-WC-A 081300910-0027	Caulk	Gray/White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
5-WC-B 081300910-0028	Caulk	Gray/Tan Fibrous Heterogeneous	10%	Cellulose	90% Non-fibrous (other)	None Detected

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212 South Wagner Road, Ann Arbor, MI 48103

Appearance

Non-Fibrous

Grav Non-Fibrous

Gray

Homogeneous

Homogeneous

Non-Fibrous

Homogeneous

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<u>Asbestos</u> % Type

None Detected

None Detected

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% Non-Fibrous

100% Non-fibrous (other)

100% Non-fibrous (other)

Collected:

Non-Asbestos

Sample

7-BB-A

7-BB-B

081300910-0032

081300910-0033

081300910-0034

Project: Baker Commons

Description

Cove Base

Cove Base

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Fibrous

5-WC-C	Caulk	Gray/Beige	10%	Cellulose	90% Non-fibrous (other)	None Detected
081300910-0029		Fibrous Heterogeneous				
6-BB-A	Cove Base	Blue			100% Non-fibrous (other)	None Detected
081300910-0030		Non-Fibrous Homogeneous				
6-BB-B	Cove Base	Blue	2%	Cellulose	98% Non-fibrous (other)	None Detected
081300910-0031		Fibrous Homogeneous				
6-BB-B	Adhesive	Gray/Tan			100% Non-fibrous (other)	None Detected
081300910-0031A		Non-Fibrous Homogeneous				
6-BB-C	Cove Base	Blue			100% Non-fibrous (other)	None Detected

7-BB-C Cove Base 100% Non-fibrous (other) None Detected Non-Fibrous 081300910-0035 Homogeneous

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

	Description		<u>bestos</u>	Asbestos		
Sample		Appearance	%	Fibrous	% Non-Fibrous	% Type
8-BB-A	Cove Base	Beige			100% Non-fibrous (other)	None Detected
081300910-0036		Non-Fibrous Homogeneous				
8-BB-A	Adhesive	Gray/Tan	10%	Cellulose	90% Non-fibrous (other)	None Detected
081300910-0036A		Fibrous Homogeneous				
8-BB-B	Cove Base	Beige			100% Non-fibrous (other)	None Detected
081300910-0037		Fibrous Homogeneous				
8-BB-B	Adhesive	Gray/Tan	10%	Cellulose	90% Non-fibrous (other)	None Detected
081300910-0037A		Fibrous Homogeneous				
8-BB-B	Joint Compound	Gray	2%	Cellulose	98% Non-fibrous (other)	None Detected
081300910-0037B		Fibrous Homogeneous				
8-BB-C	Cove Base	Beige			100% Non-fibrous (other)	None Detected
081300910-0038		Non-Fibrous Homogeneous				
8-BB-C	Adhesive	Tan			100% Non-fibrous (other)	None Detected
081300910-0038A		Non-Fibrous Homogeneous				
8-BB-C	Joint Compound	White			100% Non-fibrous (other)	None Detected
081300910-0038B		Non-Fibrous Homogeneous				

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-Asi	<u>bestos</u>	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
9-BB-A	Cove Base	Brown			100% Non-fibrous (other)	None Detected	
081300910-0039		Non-Fibrous Homogeneous					
9-BB-A	Adhesive	Gray/Tan	2%	Cellulose	98% Non-fibrous (other)	None Detected	
081300910-0039A		Fibrous Homogeneous					
9-BB-B	Cove Base	Brown			100% Non-fibrous (other)	None Detected	
081300910-0040		Non-Fibrous Homogeneous					
9-BB-B	Adhesive	Gray/Tan			100% Non-fibrous (other)	None Detected	
081300910-0040A		Non-Fibrous Homogeneous					
9-BB-C	Cove Base	Brown			100% Non-fibrous (other)	None Detected	
081300910-0041		Non-Fibrous Homogeneous					
9-BB-C	Adhesive	Gold	<1%	Cellulose	100% Non-fibrous (other)	None Detected	
081300910-0041A		Non-Fibrous Homogeneous			, , , , , , , , , , , , , , , , , , , ,		
10-BB-A	Cove Base	Beige	<1%	Cellulose	100% Non-fibrous (other)	None Detected	
081300910-0042		Fibrous Homogeneous			1 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
10-BB-A	Adhesive	Gray/Cream			100% Non-fibrous (other)	None Detected	
081300910-0042A		Non-Fibrous Homogeneous			and an expense and govern.		

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

	Description			Non-Asbe	Asbestos	
Sample		Appearance	%	Fibrous	% Non-Fibrous	% Type
10-BB-B 081300910-0043	Cove Base	ove Base Beige Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
10-BB-B 081300910-0043A	Adhesive	Gray/Cream Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
10-BB-C 081300910-0044	Baseboard	Beige Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
11-TC-A 081300910-0045	Textured Ceiling	White Non-Fibrous Homogeneous	<1%	Wollastonite	100% Non-fibrous (other)	None Detected
11-TC-B 081300910-0046	Textured Ceiling	White Non-Fibrous Homogeneous	2%	Wollastonite	98% Non-fibrous (other)	None Detected
11-TC-C 081300910-0047	Textured Ceiling	Beige Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	None Detected
11-TC-D 081300910-0048	Textured Ceiling	White Non-Fibrous Homogeneous	<1%	Wollastonite	100% Non-fibrous (other)	None Detected
11-TC-E 081300910-0049	Textured Ceiling	White Non-Fibrous Homogeneous	<1%	Glass	100% Non-fibrous (other)	None Detected

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			Asbestos			
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
11-TC-F	Textured Ceiling	White	10%	Fibrous (other)	90% Non-fibrous (other)	None Detected
081300910-0050		Non-Fibrous Homogeneous	<1%	Wollastonite		
11-TC-G	Textured Ceiling	White	<1%	Wollastonite	92% Non-fibrous (other)	None Detected
081300910-0051		Non-Fibrous Homogeneous	8%	Fibrous (other)		
11-TC-H	Textured Ceiling	White	3%	Wollastonite	92% Non-fibrous (other)	None Detected
081300910-0052		Non-Fibrous Homogeneous	5%	Fibrous (other)		
12-SG-A	Sink Glazing	Beige	20%	Cellulose	80% Non-fibrous (other)	None Detected
081300910-0053		Fibrous Homogeneous				
12-SG-B	Sink Glazing	Beige	20%	Cellulose	80% Non-fibrous (other)	None Detected
081300910-0054		Fibrous Homogeneous				
12-SG-C	Sink Glazing	Tan/Beige	15%	Cellulose	85% Non-fibrous (other)	None Detected
081300910-0055		Fibrous Homogeneous				
12-SG-D	Sink Glazing	Cream	40%	Cellulose	60% Non-fibrous (other)	None Detected
081300910-0056		Fibrous Homogeneous			Contract Con	
12-SG-E	Sink Glazing	Brown/Cream	<1%	Cellulose	88% Non-fibrous (other)	12% Chrysotile
081300910-0057		Fibrous Homogeneous			11.00	P. 11 . 11 . 10

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-Asbe	estos	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
13-CT-A	Ceiling Tile	Gray/Tan/Silver	50%	Min. Wool	50% Non-fibrous (other)	None Detected	
081300910-0058		Fibrous Homogeneous					
13-CT-B	Ceiling Tile	Gray/Tan/Silver	60%	Min. Wool	40% Non-fibrous (other)	None Detected	
081300910-0059		Fibrous Homogeneous					
13-CT-C	Ceiling Tile	Brown/Gray/Silver	70%	Min. Wool	27% Non-fibrous (other)	None Detected	
081300910-0060		Fibrous Heterogeneous	3%	Cellulose			
14-FL-A	Roof Flashing	Green			100% Non-fibrous (other)	None Detected	
081300910-0061		Non-Fibrous Homogeneous					
14-FL-B	Roof Flashing	Green	<1%	Cellulose	100% Non-fibrous (other)	None Detected	
081300910-0062		Non-Fibrous Homogeneous					
14-FL-C	Roof Flashing	Green	8%	Cellulose	92% Non-fibrous (other)	None Detected	
081300910-0063		Non-Fibrous Homogeneous	<1%	Wollastonite			
15-RM-A	Grey/White	Gray/White			100% Non-fibrous (other)	None Detected	
081300910-0064	Material	Fibrous Heterogeneous					
15-RM-A	Tan Membrane	Tan			100% Non-fibrous (other)	None Detected	
081300910-0064A		Non-Fibrous Homogeneous					

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Asbestos			
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
15-RM-A	Tape	Gray	90%	Cellulose	2% Non-fibrous (other)	None Detected
081300910-0064B		Fibrous Homogeneous	8%	Glass		
15-RM-A	Fiberglass Paper	Gray	50%	Glass	25% Non-fibrous (other)	None Detected
081300910-0064C		Fibrous Homogeneous	25%	Cellulose		
15-RM-A	Foam	White	<1%	Cellulose	100% Non-fibrous (other)	None Detected
081300910-0064D		Non-Fibrous Homogeneous				
15-RM-B	Grey/White	Gray/White			100% Non-fibrous (other)	None Detected
081300910-0065	Material	Non-Fibrous Heterogeneous				
15-RM-B	Tan Membrane	Tan			100% Non-fibrous (other)	None Detected
081300910-0065A		Non-Fibrous Homogeneous				
15-RM-B	Tape	Brown	70%	Cellulose	20% Non-fibrous (other)	None Detected
081300910-0065B		Fibrous Homogeneous	10%	Glass		
15-RM-B	Fiberglass Paper	Gray	60%	Glass	25% Non-fibrous (other)	None Detected
081300910-0065C		Fibrous Homogeneous	15%	Cellulose		
15-RM-B	Foam	White	<1%	Cellulose	100% Non-fibrous (other)	None Detected
081300910-0065D		Non-Fibrous Homogeneous				

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-Ask	pestos	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
15-RM-C	Grey/White	Gray/White	10%	Synthetic	90% Non-fibrous (other)	None Detected	
081300910-0066	Material	Non-Fibrous Heterogeneous					
15-RM-C	Tan Membrane	Tan			100% Non-fibrous (other)	None Detected	
081300910-0066A		Non-Fibrous Homogeneous					
15-RM-C	Таре	Brown	80%	Cellulose	12% Non-fibrous (other)	None Detected	
081300910-0066B		Fibrous Homogeneous	8%	Glass			
15-RM-C	Fiberglass Paper	Beige	30%	Glass	30% Non-fibrous (other)	None Detected	
081300910-0066C		Fibrous Homogeneous	40%	Cellulose			
15-RM-C	Foam	White			100% Non-fibrous (other)	None Detected	
081300910-0066D		Non-Fibrous Homogeneous					
16-PI-A	Wrap	Tan/Beige	60%	Cellulose	25% Non-fibrous (other)	None Detected	
081300910-0067		Fibrous Heterogeneous	15%	Glass			
16-PI-A	Insulation	Gray/Yellow	95%	Glass	5% Non-fibrous (other)	None Detected	
081300910-0067A		Fibrous Homogeneous	<1%	Cellulose			
16-PI-B	Wrap	Tan/Beige	55%	Cellulose	37% Non-fibrous (other)	None Detected	
081300910-0068		Fibrous Heterogeneous	8%	Glass			

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-Asi		Asbestos	
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
16-PI-B	Insulation	Gray/Yellow	98%	Glass		2% Non-fibrous (other)	None Detected
081300910-0068A		Fibrous Homogeneous					
16-PI-C	Wrap	Tan/Beige	65%	Cellulose		27% Non-fibrous (other)	None Detected
081300910-0069		Fibrous Heterogeneous	8%	Glass			
16-PI-C	Insulation	Yellow	98%	Glass		2% Non-fibrous (other)	None Detected
081300910-0069A		Fibrous Homogeneous					
16-PI-D	Wrap	Tan/Beige	60%	Cellulose		30% Non-fibrous (other)	None Detected
081300910-0070		Fibrous Heterogeneous	10%	Glass			
16-PI-D	Insulation	Yellow	98%	Glass		2% Non-fibrous (other)	None Detected
081300910-0070A		Fibrous Homogeneous	<1%	Cellulose			
16-PI-E	Wrap	Silver/Cream	40%	Cellulose		57% Non-fibrous (other)	None Detected
081300910-0071		Fibrous Heterogeneous	3%	Glass			
16-PI-E	Insulation	Yellow	98%	Glass		2% Non-fibrous (other)	None Detected
081300910-0071A		Fibrous Homogeneous	<1%	Cellulose			
16-PI-F	Wrap	Silver/Cream	40%	Cellulose	- 5	40% Non-fibrous (other)	None Detected
081300910-0072		Fibrous Homogeneous	20%	Glass			

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description		Non-Asbestos			Asbestos
		Appearance	%	Fibrous	% Non-Fibrous	% Type
16-PI-F 081300910-0072A	Insulation	Yellow Fibrous Homogeneous	99%	Glass	1% Non-fibrous (other) None Detected
16-PI-G 081300910-0073	Insulation	Yellow Fibrous Homogeneous	99%	Glass	1% Non-fibrous (other) None Detected
			No wrap p	resent	31000411	
17-PF-A 081300910-0074	Wrap	Gray/Tan Fibrous Homogeneous	90% <1%	Cellulose Glass	10% Non-fibrous (other	None Detected
17-PF-A 081300910-0074A	Mud	Gray Fibrous Homogeneous	10% <1%	Min. Wool Cellulose	90% Non-fibrous (other	None Detected
17-PF-B 081300910-0075	Wrap	Gray/Tan Fibrous Heterogeneous	65% 2%	Cellulose Glass	33% Non-fibrous (other)	None Detected
17-PF-B 081300910-0075A	Mud	Gray Fibrous Homogeneous	15% <1%	Min. Wool Cellulose	85% Non-fibrous (other)	None Detected
17-PF-C 081300910-0076	Wrap	Gray Fibrous Homogeneous	60%	Cellulose	40% Non-fibrous (other)	None Detected
17-PF-C 081300910-0076A	Mud	Gray Fibrous Homogeneous	15% <1%	Min. Wool Cellulose	85% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description			Non-Asb	estos	Asbestos	
		Appearance	%	Fibrous	% Non-Fibrous	% Type	
17-PF-D	Wrap	Gray/White	65%	Cellulose	35% Non-fibrous (other)	None Detected	
081300910-0077		Fibrous Homogeneous	<1%	Glass			
17-PF-D	Mud	Gray	20%	Min. Wool	80% Non-fibrous (other)	None Detected	
081300910-0077A		Fibrous Homogeneous	<1%	Cellulose			
17-PF-E	Wrap	Gray/White	80%	Cellulose	20% Non-fibrous (other)	None Detected	
081300910-0078		Fibrous Homogeneous					
17-PF-E	Mud	Gray	12%	Min. Wool	88% Non-fibrous (other)	None Detected	
081300910-0078A		Non-Fibrous Homogeneous	<1%	Cellulose			
17-PF-F	Wrap		60%	Cellulose	35% Non-fibrous (other)	None Detected	
081300910-0079		Non-Fibrous Heterogeneous	5%	Glass			
17-PF-F	Mud	Gray	15%	Min. Wool	82% Non-fibrous (other)	None Detected	
081300910-0079A		Fibrous Homogeneous	3%	Cellulose			
17-PF-F	Insulation	Yellow	80%	Glass	20% Non-fibrous (other)	None Detected	
081300910-0079B		Fibrous Homogeneous	<1%	Cellulose			
17-PF-G	Wrap	Gray/White	60%	Cellulose	40% Non-fibrous (other)	None Detected	
081300910-0080		Fibrous Homogeneous		777			

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-Asb	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
17-PF-G	Mud	Gray	10%	Min. Wool	90% Non-fibrous (other)	None Detected
081300910-0080A		Fibrous Homogeneous	<1%	Cellulose		
18-LN-A	Linoleum	White/Blue	5%	Glass	90% Non-fibrous (other)	None Detected
081300910-0081		Fibrous Heterogeneous	5%	Cellulose		
18-LN-B	Linoleum	White/Blue	8%	Cellulose	90% Non-fibrous (other)	None Detected
081300910-0082	(338.1)	Fibrous Heterogeneous	2%	Glass		
18-LN-C	Linoleum	Gray/Blue	15%	Cellulose	83% Non-fibrous (other)	None Detected
081300910-0083		Non-Fibrous Homogeneous	2%	Glass		
18-LN-C	Adhesive	Brown/Yellow	40%	Cellulose	60% Non-fibrous (other)	None Detected
081300910-0083A		Non-Fibrous Homogeneous	<1%	Glass		
19-PI-A	Wrap	White	25%	Cellulose	65% Non-fibrous (other)	None Detected
081300910-0084		Fibrous Heterogeneous	10%	Glass		
19-PI-A	Insulation	Yellow	98%	Glass	2% Non-fibrous (other)	None Detected
081300910-0084A		Fibrous Homogeneous				
19-PI-B	Wrap	Beige	25%	Cellulose	60% Non-fibrous (other)	None Detected
081300910-0085		Fibrous Heterogeneous	15%	Glass		

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				Non-Ast	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
19-PI-B	Insulation	Yellow	98%	Glass	2% Non-fibrous (other)	None Detected
081300910-0085A		Fibrous Homogeneous				
19-PI-C	Wrap	Gray/White	30%	Cellulose	55% Non-fibrous (other)	None Detected
081300910-0086		Fibrous Homogeneous	15%	Glass		
19-PI-C	Insulation	Yellow	96%	Glass	4% Non-fibrous (other)	None Detected
081300910-0086A		Fibrous Homogeneous				
20-PF-A	Wrap	White	90%	Cellulose	10% Non-fibrous (other)	None Detected
081300910-0087		Fibrous Homogeneous				
20-PF-A	Mud	Gray	10%	Min. Wool	90% Non-fibrous (other)	None Detected
081300910-0087A		Fibrous Homogeneous	<1%	Cellulose		
20-PF-B	Wrap	Gray	90%	Cellulose	10% Non-fibrous (other)	None Detected
081300910-0088		Fibrous Homogeneous				
20-PF-B	Mud	Gray	15%	Min. Wool	85% Non-fibrous (other)	None Detected
081300910-0088A		Fibrous Homogeneous	<1%	Cellulose		
20-PF-C	Wrap	Gray	85%	Cellulose	15% Non-fibrous (other)	None Detected
081300910-0089		Fibrous Homogeneous				

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				Non-Asb	estos	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
20-PF-C	Mud	Gray	8%	Min. Wool	90% Non-fibrous (other)	None Detected	
081300910-0089A		Fibrous Homogeneous	2%	Cellulose			
21-PI-A	Wrap	Beige	30%	Cellulose	55% Non-fibrous (other)	None Detected	
081300910-0090		Fibrous Heterogeneous	15%	Glass	, , , , , , , , , , , , , , , , , , , ,		
21-PI-A	Insulation	Yellow	95%	Glass	5% Non-fibrous (other)	None Detected	
081300910-0090A		Fibrous Homogeneous			7-1-1		
21-PI-B	Wrap	Beige	60%	Cellulose	30% Non-fibrous (other)	None Detected	
081300910-0091		Fibrous Heterogeneous	10%	Glass			
21-PI-B	Insulation	Yellow	95%	Glass	5% Non-fibrous (other)	None Detected	
081300910-0091A		Fibrous Homogeneous					
21-PI-C	Wrap	Gray/White	45%	Cellulose	45% Non-fibrous (other)	None Detected	
081300910-0092		Fibrous Homogeneous	10%	Glass			
21-PI-C	Insulation	Yellow	99%	Glass	1% Non-fibrous (other)	None Detected	
081300910-0092A		Fibrous Homogeneous					
22-PF-A	Wrap	Beige	95%	Cellulose	5% Non-fibrous (other)	None Detected	
081300910-0093		Fibrous Homogeneous				22-11-2	

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			estos	Asbestos		
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
22-PF-A	Mud	Gray/Beige	15%	Min. Wool	85% Non-fibrous (other)	None Detected
081300910-0093A		Fibrous Homogeneous	<1%	Cellulose		
22-PF-B	Wrap	Beige	95%	Cellulose	5% Non-fibrous (other)	None Detected
081300910-0094		Fibrous Homogeneous				
22-PF-B	Mud	Gray/Beige	15%	Min. Wool	85% Non-fibrous (other)	None Detected
081300910-0094A		Fibrous Homogeneous	<1%	Cellulose		
22-PF-C	Wrap	Gray	95%	Cellulose	5% Non-fibrous (other)	None Detected
081300910-0095		Fibrous Homogeneous				
22-PF-C	Mud	Gray	5%	Cellulose	80% Non-fibrous (other)	None Detected
081300910-0095A		Fibrous Homogeneous	15%	Min. Wool		
23-PI-A	Wrap	Tan/Silver	40%	Cellulose	58% Non-fibrous (other)	None Detected
081300910-0096		Fibrous Heterogeneous	2%	Glass		
23-PI-A	Insulation	Yellow	98%	Glass	2% Non-fibrous (other)	None Detected
081300910-0096A		Fibrous Homogeneous			And the Control of Control	
23-PI-B	Wrap	Silver/Beige	25%	Cellulose	65% Non-fibrous (other)	None Detected
081300910-0097		Fibrous Heterogeneous	10%	Glass		20,00,00

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Project: Baker Commons

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-Ask	Asbestos		
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	%	Type
23-PI-B	Insulation	Yellow	98%	Glass	2% Non-fibrous (other)		None Detected
081300910-0097A		Fibrous Homogeneous					
23-PI-C	Wrap	Gray	30%	Cellulose	64% Non-fibrous (other)		None Detected
081300910-0098		Fibrous Homogeneous	6%	Glass	,		
23-PI-C	Insulation	Yellow	97%	Glass	3% Non-fibrous (other)		None Detected
081300910-0098A		Fibrous Homogeneous	<1%	Cellulose			
24-PF-A	Wrap	Beige	90%	Cellulose	10% Non-fibrous (other)		None Detected
081300910-0099		Fibrous Homogeneous					
24-PF-A	Mud	Gray	20%	Min. Wool	80% Non-fibrous (other)		None Detected
081300910-0099A		Fibrous Homogeneous	<1%	Cellulose			
24-PF-B	Wrap	Beige	95%	Cellulose	5% Non-fibrous (other)		None Detected
081300910-0100		Fibrous Homogeneous					27-110-2,514-3-7-
24-PF-B	Mud	Gray	15%	Min. Wool	85% Non-fibrous (other)		None Detected
081300910-0100A		Fibrous Homogeneous	<1%	Cellulose	The same of the sa		
24-PF-C	Wrap	Gray	98%	Cellulose	2% Non-fibrous (other)		None Detected
081300910-0101		Fibrous Homogeneous					

Analyst(s)

Jamie Laginess (82)

Ryan Shannon (89)

Orlando J. Ivey II (63)

Chris Dojlidko, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI NVLAP Lab Code 101048-4



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Fax: Received:

(313) 491-2601 04/19/13 12:00 PM

Analysis Date:

4/24/2013

Collected:

Project: Baker Commons

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-Asb	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
24-PF-C 081300910-0101A	Mud	Gray Fibrous Homogeneous	15% 3%	Min. Wool Cellulose	82% Non-fibrous (other)	None Detected
25-FT-A 081300910-0102	Floor Tile	White/Orange Fibrous Heterogeneous	2%	Synthetic	98% Non-fibrous (other)	None Detected
25-FT-B 081300910-0103	Floor Tile	White/Orange Fibrous Heterogeneous	2%	Synthetic	98% Non-fibrous (other)	None Detected
25-FT-C 081300910-0104	Floor Tile	White/Orange Fibrous Heterogeneous	3%	Synthetic	97% Non-fibrous (other)	None Detected
26-TI-A 081300910-0105	Tank Insulation	Black Non-Fibrous Homogeneous	<1%	Glass	100% Non-fibrous (other)	None Detected
26-TI-B 081300910-0106	Tank Insulation	Black Non-Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
26-TI-C 081300910-0107	Tank Insulation	Black Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	None Detected
27-FPI-A 081300910-0108	Pipe Insulation	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-Asb	estos	Asbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
27-FPI-B	Pipe Insulation	Black			100% Non-fibrous (other)	None Detected
081300910-0109		Non-Fibrous Homogeneous				
27-FPI-C	Pipe Insulation	Black	<1%	Cellulose	100% Non-fibrous (other)	None Detected
081300910-0110		Non-Fibrous Homogeneous				
28-SO-A	Spray-on	Brown	12%	Cellulose	88% Non-fibrous (other)	None Detected
081300910-0111		Fibrous Homogeneous	<1%	Glass		
28-SO-B	Spray-on	Brown/Tan	15%	Cellulose	85% Non-fibrous (other)	None Detected
081300910-0112		Fibrous Homogeneous				
28-SO-C	Spray-on	Gray	6%	Cellulose	92% Non-fibrous (other)	None Detected
081300910-0113		Fibrous Homogeneous	2%	Glass		
29-DS-A	Drywall	Gray	<1%	Cellulose	100% Non-fibrous (other)	None Detected
081300910-0114		Fibrous Homogeneous	<1%	Glass		
29-DS-A	Joint Compound	White	3%	Wollastonite	97% Non-fibrous (other)	None Detected
081300910-0114A		Non-Fibrous	<1%	Cellulose		
		Homogeneous	<1%	Glass		
29-DS-B	Drywall	Gray	<1%	Cellulose	100% Non-fibrous (other)	None Detected
081300910-0115		Fibrous Homogeneous	<1%	Glass		114110 20100100

Analyst(s)

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Analysis Date: Collected:

Project: Baker Commons

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

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None Detected
lone Detected
Delicated
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Analyst(s)

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Asbestos			
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
30-PI-B	Mud	Gray	6%	Min. Wool	92% Non-fibrous (other)	None Detected
081300910-0118A		Fibrous Homogeneous	2%	Cellulose	(,	World Detected
30-PI-B	Insulation	Yellow	95%	Glass	2% Non-fibrous (other)	None Detected
081300910-0118B		Fibrous Homogeneous	3%	Cellulose	(4.12.)	None Detected
30-PI-C	Wrap	Beige	95%	Cellulose	5% Non-fibrous (other)	None Detected
081300910-0119		Fibrous Homogeneous			(1017)	None Delected
30-PI-C	Mud	Gray	15%	Min. Wool	85% Non-fibrous (other)	None Detected
081300910-0119A		Fibrous Homogeneous	<1%	Cellulose	(5.15)	None Detected
31-CT-A	Ceiling Tile	Brown/Gray/White	60%	Cellulose	32% Non-fibrous (other)	None Detected
081300910-0120		Fibrous Homogeneous	8%	Min. Wool	(21,0)	none Detected
31-CT-B	Ceiling Tile	Brown/Gray/White	60%	Cellulose	25% Non-fibrous (other)	None Detected
081300910-0121		Fibrous Homogeneous	15%	Min. Wool	(State)	Mone Detected
31-CT-C	Ceiling Tile	Gray	65%	Cellulose	20% Non-fibrous (other)	None Detected
081300910-0122		Fibrous Homogeneous	15%	Min. Wool	(elisi)	none Detected
32-WC-A	Caulk	Brown/Gray			100% Non-fibrous (other)	None Detected
081300910-0123		Non-Fibrous Homogeneous			(other)	None Detected

Analyst(s)

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Project: Baker Commons

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

				Non-As	bestos	Asbestos		
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type		
32-WC-A 081300910-0123A	Particulate Material	Gray/Tan Non-Fibrous Heterogeneous	3%	Cellulose	97% Non-fibrous (other)	None Detected		
32-WC-B 081300910-0124	Caulk	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected		
32-WC-B 081300910-0124A	Particulate Material	Tan Non-Fibrous Homogeneous	15% <1%		85% Non-fibrous (other)	None Detected		
32-WC-C 081300910-0125	Caulk	Brown/Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected		
32-WC-C 081300910-0125A	Particulate Material	Tan/Black Non-Fibrous Homogeneous	30%	Cellulose	70% Non-fibrous (other)	None Detected		
33-CT-A 081300910-0126	Ceiling Tile	Brown/Gray Fibrous Heterogeneous	6% <1%	Cellulose Glass	94% Non-fibrous (other)	None Detected		
33-CT-B 081300910-0127	Ceiling Tile	Brown/Gray Fibrous Heterogeneous	8% <1%	Cellulose Glass	92% Non-fibrous (other)	None Detected		
33-CT-C 081300910-0128	Ceiling Tile	Tan/White Fibrous Homogeneous	3% 2%	Cellulose Glass	95% Non-fibrous (other)	None Detected		

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			estos	Asbestos		
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
34-CT-A 081300910-0129	Ceiling Tile	Gray/White Fibrous Homogeneous	60% 5%	Cellulose Min. Wool	35% Non-fibrous (other)	None Detected
34-CT-B 081300910-0130	Ceiling Tile	Gray/White Fibrous Homogeneous	60% 10%	Cellulose Min. Wool	30% Non-fibrous (other)	None Detected
34-CT-C 081300910-0131	Ceiling Tile	Gray Fibrous Homogeneous	60% 10%	Cellulose Min. Wool	30% Non-fibrous (other)	None Detected
35-DC-A 081300910-0132	Caulk	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
35-DC-B 081300910-0133	Caulk	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
35-DC-C 081300910-0134	Caulk	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
36-WC-A 081300910-0135	Caulk	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
36-WC-B 081300910-0136	Caulk	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			estos	Asbestos		
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
36-WC-C	Caulk	Brown			100% Non-fibrous (other)	None Detected
081300910-0137		Non-Fibrous Homogeneous				
37-FT-A	Floor Tile	White/Red	4%	Synthetic	94% Non-fibrous (other)	None Detected
081300910-0138		Fibrous Homogeneous	2%	Cellulose	Carter,	None Belevied
37-FT-B	Floor Tile	White/Red	2%	Cellulose	93% Non-fibrous (other)	None Detected
081300910-0139		Fibrous Homogeneous	5%	Synthetic		Hone Beledied
37-FT-C	Floor Tile	White/Red	3%	Synthetic	95% Non-fibrous (other)	None Detected
081300910-0140		Fibrous Heterogeneous	2%	Cellulose	, and the same of	Horic Detected
38-FT-A	Floor Tile	Gray/Tan/White	2%	Synthetic	98% Non-fibrous (other)	None Detected
081300910-0141		Fibrous Homogeneous			(card)	Notic Detected
38-FT-B	Floor Tile	Brown/Gray/White	2%	Synthetic	98% Non-fibrous (other)	None Detected
081300910-0142		Fibrous Homogeneous			(char)	None Delected
38-FT-C	Floor Tile	Gray/Tan	5%	Synthetic	95% Non-fibrous (other)	None Detected
081300910-0143		Fibrous Heterogeneous			(GERAL)	None Detected
39-FT-A	Floor Tile	White/Blue	2%	Synthetic	98% Non-fibrous (other)	None Detected
081300910-0144		Fibrous Homogeneous			,	none believed

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

		Non-Asbestos				Asbestos	
Sample	Description	Appearance	% F	ibrous	% Non-Fibrous	% Type	
39-FT-B	Floor Tile	White/Blue	2%	Synthetic	98% Non-fibrous (other)	None Detected	
081300910-0145		Fibrous Homogeneous					
39-FT-C	Floor Tile	Gray/Blue	5%	Synthetic	93% Non-fibrous (other)	None Detected	
081300910-0146		Fibrous Heterogeneous	2%	Cellulose	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Tione Delegated	

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Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI NVLAP Lab Code 101048-4

CHAIN OF CUSTODY Asbestos

Electron Microscopy Service Laboratories, Inc.

EMEL

EMSL Analytical, Inc. 212 S. Wagner, Ann Arbor, MI 48103 (734) 668-6810

Company Name: American Environmental	EMSL Bill To:	American Environmental	2
Address: Consultants, L.L.C.	Address:	Consultants, L.L.C.	_
'City/State/Zip: P.O. Box 32865 Detroit, MI 48232	City/State:	P.O. Box 32865 Detroit, MI 48232	-
Phone: 313 491 2600	Bill Attention T	0:	entales.
Fax: 313 491 2601	Phone:		_
Fax or Phone Results To:	PO#:	50 - 114 - 1 - 1 - 1 - 1	Person
	Project Name/N	umber:	_

TYPE OF ANALYSIS (Please Girele One)

	TE	M		PLM	PCM	SEM
Air	Bulk	Dust/Wipe	Water	Bulk	Air	SERVI
AHERA Level II NIOSH 7402	Qualitative Chatfield	Qualitative Quantitative	Drinking Waste	EPA 600 Point Count	NIOSH 7400	

Please call in advance for RUSH sample analysis or large quantities.

TURNAROUND TIME (Please Circle One)
6 Hour 24 Hour 48 Hour 3 Days

3 Hour

Sample ID	Location	Volume/Area (ir applicable
1-DS-A	103 Kitchen - Dayu	all walls.
В	108 BAthroom	
C	201 Living Room	
D	210 Living Room	
E	302 Kitchen .	
=	312 Kitchen	
R _O	401 BEDROOM	
H	410 HALL POUTS! NE UNIT	
Γ	508 HALL COUTSIDE UNIT .	
Ţ	514 HAIL POUTSIDE Unit	
2. DS- A	108 BAthroom - Dryns	of ceilines.
ß	III BAthroom)-
	201 Kitchen	

Comments:	Total Number of Samples: 146
Relinquished by: AEC - Most Ralan	Date: 4-19-12 Time:
Received by: RS IN	Date: 4 9/13 Time: 11:35

.1 of7



Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997 FAX: (317) 803-3047

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collecte
D	207 - BAThroom	1			- Oneote
E	305 - Kitchen				
F	311- BATH				
6	408 - HALL JOUTS DEUN				
Н	501 - Living Room				
エ	508 - HALL POUTSTAK UNIV				
5					
3-TC- A	Textures ceiling white 103 Liv				And the same of th
B	103 60	ing room			***************************************
(103 Living Room				The same of the sa
1. LN-A	10 x12" Wher 1 -11				77,000
1	109 Kitchen				
0	310 Ktchm				Mora a martiner
	501 Kitchen				
WC-A	W. n DOW Carlk - 108 L.	ing Room	7		
	old Living Room				
(410 Living Room				
BB-A	4" TEAL DASE BOARD - 214 K	vive p			
В	401 Living Room	7 1400 11			The state of the s
	510 - Living room				
BB - A	tibray base Bonzo . 10 9 (And the second s
B	211 Living Room	ing Room			
4	405 Entry				
BB. A 4	1"70.				
	1"TAN DAXEBORED -110 Kite.	hin			
ments/Special I					

Comments/Special	Instructions:

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Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997 FAX: (317) 803-3047

Sample #		Sample Location	Sampl Type		Volume/Area	a Date/Time Collecte
0	30	5. Kitchn.				- The someone
9-BB- B	1 4"Ba	wn basebonag .	· III Living	Room		
(Entry				
10-BB-A	4"Berg	E besieves - /1 BAHAROOM	3 BASH	Zoom		
C	508					
11- TC- A	TEXTU	per coming or	Concrete	209	Living Roo	yb.
(401	Living Room	SIDE 303			
D	211-	Living Room				
E	412-	Lingroom				
F	308-	Lungroom				
6	TRASHR	00m - 32 Flor				
H. SG- 4		Room 2 Floo				
B	301-	Kitchen 20	1 Kitcher			
4		Kitchm.				
D	405	Citchen				
E	201	Viter.			•	
- CT-A	3. x3, 56	tervae gray-	yorth sipe	1 3+ FW		
B (EN. DOLE O.	Floor 1	JEAR OFFICE	13+6	00/	
	South E	19 Name 13				

Comments/Special	Instructions:
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Page 3 of 2 Pages

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Environmental Microbiology Chain of Custody EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997

Sample #	. Sample Location	Sample	Test	Volume	
14-FL-A	Roof Flashing - South &	Type	Code	Volume/Area	Date/Time Collecte
В	North End Root	zno leof			
	middle of roof.				
15-RM-A	Root makial - South				
В	North End Root	and Root			
C	middle of Roof.				
6- PI-P	2"pipe ansulation - Sout				
В	North Stars 5 in F	in Stanes	5th Floo	a	
(North States 4th Floor	LOOR			
D	South Staxs 4th Fla				Principles and Section 2000 Control of the Control
É					
F	South Starks 32	Floor			tong.
6	North Stares 32	Floor			6.5
2	Noeth Strips Jw	Floor			-
	pipe Fitting - South S.	thas 5 4n	FLOOR		
	South Stans 5 Th Flag	0			
D	Woeth stares 4th Fuo	2			The second section and the
ES	both stains 4th Floor	R			
	buth Stares 32 Fun	R			
6	Joeth Strings 2 mg Floor	2			
					Manager and American State of the Control of the Co
-	Elinaleum Flooring - 12+ Flo	POCTOBER	oon		-
	FLOOT TRASH PORT				
- 5	th FLOOR TRASHROOM			and be because the second seco	
			1		
ents/Special Ins	tructions:				

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Environmental Microbiology Chain of Custody EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997 FAX: (317) 803-3047

19-PIA	Sample Location	Sample Type	Test Code	Volume/Area	D
11 14 P	3" PIPE Insulation	- NOALL			Date/Time Collecte
B	EAST - Eng	T SIES M	on o		
- (Fort				
20-PF-A 3	EAST END				
T-D-S	PPK FITTING - 1	orth end			
P	EAST END				
	EAST END				
21-PI-A 8	14 200 - 1 1 1				And April 19 and A
	" P.PE Insulation -	South the			
	3. 600		and the second s		
22-PF-A 8"	Jorth on o				Service desired to the service of th
Q Q - 87- A 1800	PIPE F. Hing- South	Control of the State Control o			The second party of the second party and a second p
BITO	BT BAD	and			
	2 00 0				
12 00	out on			· · · · · · · · · · · · · · · · · · ·	
13-PI-A 19"	PIPE Insulation				
B So.	1th end	Donth duo			
4/6					3
1-PF-P 12"	oth the				
	pipe Fitting - South	-	-		
B 500	th pro	00			
4 51.	the Eno				
5 F+ A 12 x	TON BAD				
	a" Fworth (orange)	5th E/ 21			
The same of the sa	TO HOLL	- 1 GOE H	19 (
C 125	Floor Hall				
- A am RI.			_		-
2 DIACE	FIRE INSULATION	- WEST	50 5	3	
WEST	END DASEMENT		00 1	BACMONT	
- WEST	E-10 13 15 ac		-		
The same of the sa	- TOOMENT	1	1		
nents/Special Instructi	ons:				1

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Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997 FAX: (317) 803-3047

Sample #				T FA	ONE: (317) 803-29 X: (317) 803-3047
07 50	. Sample Location	Sample Type	Test		, 5047
27-FPI-A	Black toam Pipe Insula	there are the	Code	Volume/Area	Date/Time Collec
BU	UEST END PRIEMENT	- WE	I End	basement	
- L L	JEST END BASEMENT				
28-50-p 5	PLAY ON TO I !				
BL	pray ON Insulation	Soy-	in En D	basemel	T
E	AST GOD PASEMENT				
29- DS-A DE	YWALL SUCK				The second secon
Bm	24 wall Systems - base	Smawt -	middle	EASTWALL	
C m	Alle WORLD WALL			FEL VIII	
30-PI-A 18"	ddie worth wall			to any house of the original and the second of the second	the first section of the section of
BEA	Domester water tank	BASEMEN	+ - tw	ST END	
	The state of the s			- BAD	
	ST END		-		
- 1	(2' Rough texture)	eiling til	1		
		7	Lyn	ch poom	
3-WC-A Brown	Fwor lobby		_		
12104	a mindows Could -	245	1		
8 32	Floor balcony	rocr	DACOM	9	
7 0 -	FLOOR BALLAND				
200	- (Extinctile				
B 34 F	LExling tile Smooth	texture -	J= FL	our office	
- 100 F	Los offin I				
CT- A 2. x3.	Pinhole Ceilingtile				
B 2= F60	or laundry Room	of Floor	Loundry	Ruom	
12= 5			1 7		-
nents/Special Instructio	or Laundry Reson	The same of the sa			
	7 7 7 7				

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Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997

Sample #	. Sample Location	Sample Type	Test	Volume/Area	
35-DC-A	Brown Dans 1-1	1 Ju	Code	voidille/Area	Date/Time Collecte
B	Brown Door Caul	4-0-	1 + 100r	balcong	
	- DAICONG				
36000	And Floor balcony				
00 WC-10 10	Brown Exterior window	CAUK -	North	sine unit	-
The state of the s	3, 50, 11 4				
20 5	both sipe wit				
SI-FT-A R	ED 12" X12" Floorfile	154 FL	v labbu		
0 1	- Floor labbu	1 1	10009		The second secon
C 11	Floor Land			or dead of the second of the s	-
8 . Ft - A Y.	ellow 12"x12" Floor +		-		***************************************
B 15	+ Floor lobby	le - Eleve	sto!		
C 1.	inch room				
9- 1-0 31	THEN COOM				
0 15	06 12" X 12" Floor +14 -	1st Floor	lobby		
0 1	floor lobby	77			
	Fuor labby				
	V				
	and the second s				
The State of the S	The second section of the sectio				

nents/Special Instru	ctions.				

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R3 4/4/13 1130

CHAIN OF CUSTODY Asbestos

Electron Microscopy Service Laboratories, Inc.

EMSL Analytical, Inc. 212 S. Wagner, Ann Arbor, MI 48103 (734) 668-6810

103 (734) 668-6810 Fac: (734) 668-8537

EMSL Bill To: American Environmental
Address: Consultants, L.L.C.
City/State: P.O. Box 32865 Detroit, MI 48232
Bill Attention To:
Phone:
PO#:
Project Name/Number:

JFox eacominet
TYPE OF ANALYSIS (Please Circle One)

	TE	M		PLM	PCM	SEM
Air	Bulk	Dust/Wipe	Water	Bulk	Air	SEIM
AHERA Level II NIOSH 7402	Qualitative Chatfield	Qualitative Quantitative	Drinking Waste	EPA 600 Point Count	NIOSH 7400	

Please call in advance for RUSH sample analysis or large quantities.

TURNAROUND TIME (Please Circle One)

3 Hour 6 Hour 24 Hour 48 Hour 3 Days 5 Days

Sample ID	Location	Volume/Area (if applicable
1-DS-A	103 Kitchen - Dayu	well walls:
В	108 BAthroom	
C	201 Living Room .	
D	210 Living Room	
E	302 Kitchen .	
F	312 Kitchen	
G	401 BEDROOM	
H	410 HALL POUTSINE UNIT	
T	508 HALL COUTSIDE UNIT	
J	514 HAIL POUTSIDE UNST	
\$ 2-DS-A	108 BATHROOM - Daywa	of ceilines
ß	III BATHROOM	
	201 Kitchen	

Comments:	-10/1	Total Number of Samples: 146
Relinquished by: A & (- M)	aff Pola	Date: 4-17-12 Time:
Received by: KS 15	- sugar	Date: 4/7/13 Time: 11:35

. 1 of7



Environmental Microbiology Chain of Custody EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997 FAX: (317) 803-3047

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
D	207 - BAthroom				
E	305 - Kitchen				
F	311- BAH				
6	408 - HALL JOUTS DEUNIN				Production and the second
H	501 - Living Rusin			-	
<u>I</u>	508 - HALL POUTSIDE UNT				4.44
5	509 - Living Room				
3-TC-A	Textures ceiting white 103 Liv	ny moon		The state of the s	110700
B	103 Living Room	7	and the second second	the Salaran gray and the salaran and the salar	Phone is a section of the section of
	103 Living Room				
4. LN-A	109 Kitchen				10
В	310 Kitchen		- 20	14507-1	
<u> </u>	501 Kitchen				
-WC-A	WinDow Carlk - 108 Live	21 10 - 1 4	2		
8	212 Living Room	9 1000			· · · · · · · · · · · · · · · · · · ·
	410 Living room				
BB-A	4" TEAL DASE BOARD - 214 KA	uise n			
В	401 Ling Room	1200 m			
_	510 - Living reem				
BB-A	4" Gray base Bonzo . 10 9 Lis	100		and the second s	
В	211 Living Room	3 100m			
<u> </u>	405 Entry				
BB. A	H"TAN BASEBORED -110 Ktcl	4		*	
	202 K. tchen	Select 1			

Comments/Special Instructions:	

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Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997 FAX: (317) 803-3047

Sample #	. Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collecte
9-00	305 · Kitchn.				- ato finie Conecie
9-BB-A	4" Brown basebears - 1	11/ Living R	ala un		
B	, O HAII	3			
	514 Enray				
10-BB-A	4" Besge basecore - 113	BATH RO	e m	-	
-	13 HTH ROOM		.)		
# 9 Albert is a second to the first the second to the seco	508 Hall				
11-76-A	TEXTURES LETTING ON C	concrete -	209	Living Room	A to the state of
And the second s	Thoose Hay GUTS:0	€ 303	Commence of the Commence of th	- 3 160 M	- a constitution constitution and account of the constitution of t
	Living Room				The state of the s
D	211 - Living Room				
E	412 - Living Room				
	308- Lungroom				
6 -	MASHROOM - 32 FLOOR				
HI	RASH Room 2 FLOOR				
-56-A	Sink Glazing 207	Kitchen			The state of the s
0	301 - Kitchwa				
	305 - Kitchm.	The second second (1) respectively.			
	los Kitchyn				
- CT-A 3	Rough texture down				
2 3	Rough texture dray.	etn si De 1	of Floor	And the second s	
1	BOLEOT IS FLOOR NEI	are office	15+ Floor	2	
ments/Special Ins	Uth END NOTES 121 -	local			

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Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997 FAX: (317) 803-3047

Sample #	. Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collecte
14-FL-A	Roof Flashing - South	End Rent	0000		Date/Time Collecte
B	portnend Root				
	middle of noof.				
15-RM-A	Roct material - South	en p. 1			
В	North End Root	0 1001			
· · ·	middle of Reof.				
16-PI-A	2" pipe Insulation - South	th Stages	rth-		
В	North Stores 5 in F	1002	S F40	R	The state of the s
	North Stares 4th Floor				the control of the state of the
D	South Staxs 4th Flo	OK			
E	South Starks 32	Floor			-
F	North Stars 32	El	-		
6	North Strings 20	±1000			
1- PF- A	2" pipe Fitting - South 5	Las sin			
В	Stans ST FIN	0	Floor		
	Woeth stares 4th Fil	. 2			
D	South Stairs 4th -				
E	South SLANES 3N FILE	OR.	-		
<u> </u>	South Stares 30 Floor North Stares 30 Floor North Stares 2 Floor				
6	Noeth Stains 2 " Floo	a			110000
	Slue Lingleson Flooring - 124x1		+		-
	TOOT TRASH PORT	TASHR	oo m	14 (
	5th FLOOR TRASHROOM			the street way a place to the street of	
nents/Special I	nstructions:				

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Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997

Sample #	. Sample Location	Sample	Test		X: (317) 803-3047
19-PI A 3	2	Time	Code	Volume/Area	Date/Time Collect
	3" PIRE Insulation	- PORTH			Time conect
B	EAST - END	1 3 7 1	m U		
/	END	-			
20 0	EAST END				
20-PF-A 3	P.P. Fither -	1000			
B 6	EAST END P.P.C FITTING - 1	JOKTH END			
	EASTEND				
			The state of the Principle of the State of t		
21-PI-A 8	P. PE Insulation -	-			
BF	T y shastansa	Donth top			
The second section with the second section sec	ATST END				the succession of the principal annual few control of the principal annual part of the principal annual
20 0 1	Jorth on o				the same of the sa
22-PF-A 8"	PIPE F. Hing - South	Manager and Assessment			
B -	3004n	5nd			The second secon
	ST END				
P	outh ono				
	P. PE Insulation +	Southono			
0 00	uth eno				Marie and Marie A.
L 50,	oth mo				
-PF-A 12"					
	Pipe Fitting - South	1600			
B 500	th ono				
L 51.	th Eng				
1 (1. 0	THE BAD				
TT. A DIXI	a" Floor tile (ormnige)	5+4			
B 350	FOOT HALL	2 LAOL F	MIL		
1 1 13:					The second section of the sect
IF	Floor HAII				
- ARE Black	TANK Insulation				Mary and a second account of the second acco
B WEST	TANK Insulation TEND DASEMENT	YEST	En o	BASEMONT	
()	DIPPASEMENT				and many that is a second distribution of the second of the second of the second of
ents/Special Instruct	Eno Bas				
ents/Special Instruct					

Comments/Special	Instructions:

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Environmental Microbiology Chain of Custody EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997 FAX: (317) 803-3047

Sample #	Sample			I FA	IONE: (317) 803-29 X: (317) 803-3047
10	. Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collect
BWES	FOAM PIPE INSULA	Hon - WE	ET END	basemen +	- Conect
WELS	END DASEMENT			3	
28-50-p SprA	L'ON TOO I'				
B Noei	1-ON Insulation	Soy.	th en b	baseme	7
EAST	END PASEMENT				and the second s
PRYW	All Systems - had			-	
	NORTH WALL	mewi -	middle	EASTWALL	-
middle	North				
10 Don	MESTEL WATER LAND	Ra-		The same of the sa	The second secon
/	Mineropolis	DOSEMEN	F - Em	ST END	Log American
1-LT- A 2'X2'	5np	-	-		
2 Luces	Rough textured C.	· Cac III			
		3114	Lyn	ch eoom	
2-WC-A Brown	or lobby				
Drown	riadous Co IId	24 5			
6 2nd	R balcony	Poer	DA CON	9	
o Floo	R balcon		+		
pur to the pur	Theatle	texture -	1~		
			9 FL	our office	
CT- A 2'x2' P	office.		+		
The state of the s	note Ceilingtile	24 Flore	1		
C DW- Floor 1,	Aundry Room		Hondry	Reom	
		The second second	- 1	1	

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Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Indianapolis, IN 2001 East 52nd Street Indianapolis, IN 46205 PHONE: (317) 803-2997 FAX: (317) 803-3047

Sample #	. Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collecte
35-DC-A	Brown Door Cault	- 2=		balcong	
B	au Floor balcony		. (007	BALCONG	
	2nd Floor balcony				
36-WC-B	Brown Exterior window.	11			
ß	Enst side unit	CAU IK	NORTH	S.DE Unit	4
C	South side wit				
37-F+-A	RED 12"x12" Floorfile	154 51	. c . l . b .		
B	12 Floor lobby	- T (6	2 10 800		
	1st Floor lunch son			The state of the s	
8 . Ft - A	Yellow 12"x12" Floor +1	-	-		
B	1st Floor lobby	e - Elevi	ato/		
Č	lunch room				
9-F+-A	Blue 12" x 12" Floortike	12 5	1.0		3-1110-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
В	1st Floor lobby	7 - 1001	lobby		
	1st Fuer lebby				
	is pag				The second secon
			-		
- Daniela san					
nents/Special In	netructions				

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ACM Survey 106 Packard Ann Arbor, MI 48104 4/17-4/18/2013

Project Number: 1459-13009

Appendix C Site Photographs



PHOTOGRAPHIC LOG

Site Name:

Baker Commons

Project Number:

1459-13009

Street Address:

106 Packard

City, State, Zip:

Ann Arbor, MI 48108

Photo Number:

Photographer:

Jef Fox

Date:

April 17- April 18, 2013

Description:

Sink Glaze



Photo Number:

Photographer:

Jef Fox

Date:

April 17- April 18, 2013

Description:

Pinhole Ceiling Tile





PHOTOGRAPHIC LOG

Site Name: **Baker Commons** Project Number: 1459-13009 Street Address: 106 Packard City, State, Zip: Ann Arbor, MI 48108

Photo Number:

Photographer: Jef Fox

Date:

April 17- April 18, 2013

Description:

Window Caulk

Photo Number:

Photographer:

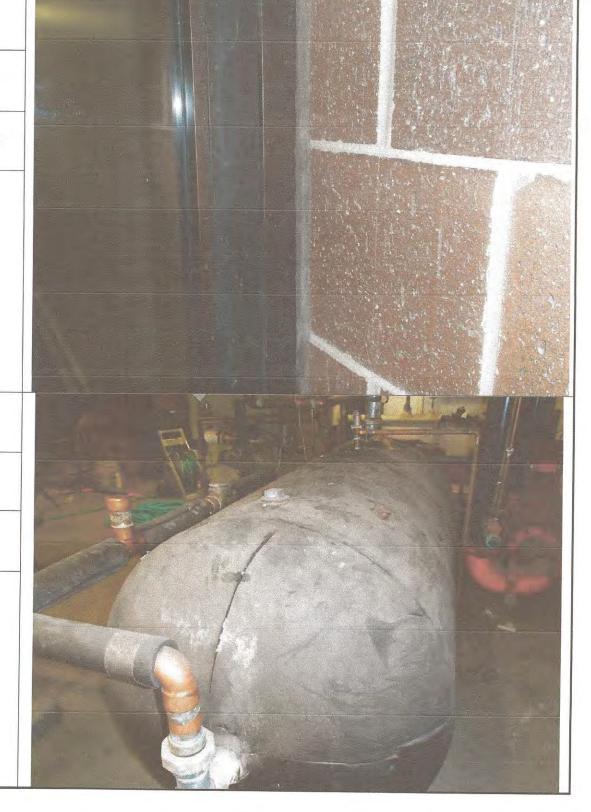
Jef Fox

Date:

April 17- April 18, 2013

Description:

Tank Insulation





PHOTOGRAPHIC LOG

CONSULTANTS, L.L.C. 12838 Gavel, Detroit, MI 48227 Phone: 313-491-2600 Fax: 313-491-2601

Site Name: Baker Commons Project Number: 1459-13009
Street Address: 106 Packard City, State, Zip: Ann Arbor, MI 48108

Photo Number:

5

Photographer:

Jef Fox

Date:

April 17- April 18, 2013

Description:

Floor Tile



Photo Number:

6

Photographer:

Jef Fox

Date:

April 17- April 18, 2013

Description:

Pipe Fitting

