Pre-Renovation Hazardous Building Materials Inspection Report

Residential Building 718 Orange Avenue East St. Paul, Minnesota

Prepared for

Ramsey County





Project B1801954 March 22, 2018

Braun Intertec Corporation





Braun Intertec Corporation 11001 Hampshire Avenue S Minneapolis, MN 55438 Phone: 952.995.2000 Fax: 952.995.2020 Web: braunintertec.com

March 22, 2018

Project B1801954

Mr. Paul Scharf Ramsey County 90 West Plato Boulevard St. Paul, MN 55107

Re:

Pre-Renovation Hazardous Building Materials Inspection Report

Residential Building 718 Orange Avenue East St. Paul, Minnesota

Dear Mr. Scharf:

The enclosed report provides the results of the pre-renovation hazardous building materials inspection conducted on March 6, 2018, at the residential building located at 718 Orange Avenue East in St. Paul, Minnesota (Site). Braun Intertec Corporation was authorized to conduct this inspection in accordance with our Proposal QTB074064 dated March 1, 2018 and the Braun Intertec General Conditions.

The following outline provides the structure of the report.

- Scope of Services
- Site Description
- Results
- Discussion
- Limitations

If you have any questions or need further assistance, please call Gaia Ewing at 612.751.4018 or Stephen Luth at 952.995.2668.

Sincerely,

BRAUN INTERTEC CORPORATION

Gaia I. Ewing

Environmental Technician

Project Scientist

Attachments:

Pre-Renovation Hazardous Building Materials Inspection Report

AA/EOE

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- C: Table III. Lead-Based Paint Testing Results
- D: Bulk Asbestos Analysis Report
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A. Scope of Services

The scope of our services was limited to:

- Visually examine accessible areas and identify locations of suspect asbestos-containing material (ACM), lead, poly-chlorinated biphenyls (PCB), mercury, and other miscellaneous hazardous material.
- Collect and analyze representative bulk samples of materials suspected of containing asbestos.
- Conduct limited lead-based paint testing (LBP) of various building components that may be impacted by the future renovation project. The various painted surfaces suspected of containing lead will be tested using a Niton X-ray fluorescence (XRF) spectrum analyzer. The Niton is a portable, non-destructive, in-situ test and measurement instrument. The scope of the limited lead-based testing is intended to be used to aid the Contractor in developing the project budget and worker safety requirements for OSHA and US EPA Renovation, Repair and Painting Program Rule (RRP) compliance.

Note: The limited lead-based paint testing is not intended to represent a comprehensive lead-based paint inspection, lead risk assessment or fulfill the testing protocols required by the Department of Housing and Urban Development (HUD) Lead Safe Housing Rule, 24 CFR 35, subparts B through R, et al., June 21, 2004. Additional LBP testing may be required.

- Assign a hazard rating based on asbestos content with respect to the materials condition, friability, accessibility, and hazard potential.
- Document the various materials' current conditions and ACM quantities.
- Generate a final report documenting the sample locations, analysis results, conditions, ACM quantities.

B. Site Description

The subject of the inspection is the residential building located at 718 Orange Avenue East in St. Paul, Minnesota. The house is a two-story wood structure with a basement. It was constructed in 1907 and encompasses approximately 1,800 square feet. The house is constructed of wood, concrete and concrete block foundation walls. The typical interior finishes included plaster, sheetrock/joint compound, floor tile, ceiling texture and vinyl sheet flooring. The exterior of the house has transite siding with an asphalt shingle roof. A detached garage that it is on the property is constructed of wood and has an asphalt shingle roof. The buildings were vacant and unoccupied at the time of the inspection.



C. Results

C.1. Asbestos

Thirty-two (32) bulk samples were collected on March 6, 2018 and submitted to EMSL Analytical, Inc. a microscopy laboratory that is fully accredited for bulk analysis.

C.1.a. Asbestos-Containing Materials

The following is a summary of building materials found or assumed to contain greater than one percent asbestos (asbestos-containing materials by regulatory definition).

- Chimney breaching in the basement contains 25 percent (%) chrysotile (asbestos).
- Fibrous duct wrap paper (white) located on vents behind walls contains 60% chrysotile.
- 12-inch by 12-inch floor tile (gray stone look) located in the second floor north bedroom contains 5% chrysotile.
- 9-inch by 9-inch floor tile (gray w/gray streaks) located in the second floor north bedroom contains 5% chrysotile.
- 9-inch by 9-inch floor tile (white/gray) located in the second floor south bedroom contains 3% chrysotile.
- Caulk (black) on exterior porch window frame contains 5% chrysotile.
- Transite siding on exterior contains 10% chrysotile.

C.1.b. Non-Asbestos-Containing Materials

The following is a summary of building materials found to contain no asbestos or materials that contain one percent or less asbestos (non-asbestos-containing materials by regulatory definition).

- Plaster
- Vinyl sheet flooring (off-white, 4"x4" double square pattern) w/ backing (gray)
- Vinyl sheet flooring (brown, designed) w/ backing (gray)
- 6-inch by 6-inch ceramic wall tile w/ grout and thin set
- Ceiling and wall texture (popcorn)
- Sheetrock/joint compound
- 12-inch by 12-inch ceramic floor and wall tile (tan) w/ grout
- Floor vent cover board (tan)
- Vinyl sheet flooring (white/gray/tan 12" square pattern)
- Tan adhesive on 12-inch by 12-inch floor tile (gray stone look)
- Mastic (black) on 9-inch by 9-inch floor tile (gray w/gray streaks)
- Residual black mastic
- Tarpaper beneath 9-inch by 9-inch floor tile (white/gray)
- Vinyl baseboard (gray) w/ adhesive (tan)



- Blown-in insulation (brown)
- Tarpaper (black)
- Caulk (brown) metal window frame
- Caulk (white) window frame and metal seams
- Shingles (brown) with tarpaper

Refer to Table I in Appendix A, which lists individual functional spaces of the building, the suspect materials identified in that functional space, whether the suspect material was identified by analysis to be an asbestos-containing material, an estimated amount of each suspect material for the functional space, and includes condition, assessment categories and hazard ratings based on subjective observations made by our representatives.

Refer to Table II in Appendix B, which lists the homogenous material sample numbers, sample locations, suspect material descriptions, and the analysis results for each sample. This table summarizes the results from the Bulk Asbestos Laboratory Report, which is attached in Appendix D.

Bulk asbestos analysis was conducted in accordance with the Environmental Protection Agency's (EPA) Method 40 CFR, Chapter 1, Part 763, Subpart F, and Appendix A (7/1/87 Edition).

C.2. Lead-Based Paint

Testing of limited building components for lead-based paint was accomplished utilizing a Niton XL X-Ray Fluorescence (XRF) field portable analyzer, Model No. XLP303A - Serial No. 22287, equipped with a 40-milocurie CD-109 source - Serial No. TR3277, installed on March 17, 2015.

Analysis decision-making protocols were based on compliance with the United States (US) EPA and Minnesota Department of Health (MDH), which consider any x-ray fluorescence (XRF) result of 1.0 milligram per square centimeter (mg/cm²) or greater to be "lead-based paint." The following is a list of lead-based paints that were found on the limited building components tested.

- Chimney brick (white) basement
- Wood door frame (white) basement
- Wood wall (white) basement
- Wood window frame (white) basement
- Wood window sill (white) basement
- Wood door (white) kitchen
- Wood wall (white) main floor, pantry
- Wood siding (white) main floor, pantry
- Wood window sill (white) second floor
- Wood door (white) second floor, crawl space
- Wood floor (gray) exterior, porch
- Wood siding (gray) exterior, porch
- Wood soffit (white) exterior, porch
- Wood window frame (gray) exterior porch
- Wood siding (white) exterior, porch



- Transite siding (white) exterior
- Wood window frame (gray) exterior

Refer to Table III in Appendix C, which lists the sample numbers, sample locations, component descriptions, XRF field results, and the paint condition for each sample.

C.3. Miscellaneous Regulated Waste

A visual inspection for miscellaneous regulated waste materials that require separate handling and disposal prior to disturbance during building demolition was also performed as part of this assessment. The following is a list of items documented at the site:

C.3.a. Mercury

- Batteries smoke detectors.
- Electrical Systems electrical panels.
- Heating furnace, thermostats.
- Lighting fluorescent lamps.

C.3.b. Chlorofluorocarbons (CFCs) and Hydrochlorofluorocarbons (HCFCs)

Refrigerants – air-conditioning unit.

C.3.c. Miscellaneous

- Water heater
- Central air conditioners

D. Discussion

D.1. Asbestos-Containing Materials

D.1.a. Friable ACM

The following asbestos-containing materials are classified as friable materials according to EPA 40 CFR Part 61 National Emission Standard for Hazardous Air Pollutants (NESHAPs):

- Chimney breaching (fibrous).
- Fibrous duct wrap paper (white)

The above friable ACMs were observed to be in good condition at the time of our inspection. These materials should be maintained in good condition to prevent potential exposure to asbestos. Friable ACMs are to be removed prior to disturbance by demolition in accordance with applicable state and federal regulations.



D.1.b. Category I Non-Friable ACM

The following asbestos-containing materials are classified as Category I non-friable materials according to EPA 40 CFR Part 61 National Emission Standard for Hazardous Air Pollutants (NESHAPs):

- 12-inch by 12-inch floor tile (gray stone look)
- 9-inch by 9-inch floor tile (gray w/gray streaks)
- 9-inch by 9-inch floor tile (white/gray)

The above Category I non-friable ACMs were observed to be in good condition at the time of our inspection. These materials should be maintained in good condition to prevent potential exposure to asbestos. Category I non-friable ACMs are not considered a hazard unless cut, drilled, sanded, or otherwise abraded. However, any Category I material that may become friable during demolition must be removed prior to that activity. Secondly, if left in place, the crushing or recycling of demolition debris is strictly prohibited. In addition, all demolition debris containing Category I materials must be disposed of at a landfill specifically permitted to accept this type of waste.

D.1.c. Category II Non-Friable ACM

The following asbestos-containing materials are classified as Category II non-friable materials according to EPA NESHAPs:

- Caulk (black) on exterior porch window frame
- Transite siding

The above Category II non-friable ACMs were observed to be in good condition at the time of our inspection. These materials should be maintained in good condition to prevent potential exposure to asbestos. Category II non-friable ACMs are not considered a hazard unless cut, drilled, sanded, or otherwise abraded. However, Category II non-friable ACMs that may become friable during demolition must be removed prior to that activity. In accordance with applicable state and federal regulations.

D.2. Lead-Based Paint

Building components with lead-based paint should be maintained in good condition. If lead-based paint is to be disturbed during renovation, contractors should follow "Lead Safe Work Practices" and the OSHA Lead in Construction Standard. If the building were to be demolished in its entirety, building components with lead paint are not required to be removed or disposed of as lead or hazardous waste. Any lead-based paint-containing demolition waste and/or debris generated during building renovation or demolition should be subject to proper handling and disposal, consistent with applicable regulations and requirements.

The U.S. OSHA Lead in Construction Standard 29 Code of Federal Regulations (CFR) 1926.62 applies to all situations where employees are engaged in the disturbance of lead-containing coatings, regardless of the quantity of lead involved. Therefore, any XRF result above 0.0 mg/cm² is considered "lead-containing coatings" in order to be in compliance with the OSHA standard. Demolition of the building may involve disturbing lead-containing coatings. Contractors should be informed of the presence of lead coatings and that they will be required to comply with the OSHA lead standard.





D.3. Miscellaneous Regulated Waste

In the case of building renovation/demolition, any of the miscellaneous regulated waste items listed in Section C.3 that will be disturbed, must be removed prior to disturbance and must be recycled or disposed of in accordance with state and federal guidelines.

E. Limitations

This inspection was limited to areas available for observation via non-destructive means. In any building, the potential exists for hazardous building materials to be located inside walls, above ceilings, under floors, and other inaccessible areas. Braun Intertec cannot be held responsible for the presence of any such hidden materials. In the case of building renovation/demolition, contractors involved in the project should be made aware of this potential. If previously unidentified suspect hazardous building materials are exposed during their activities they should be sampled and analyzed for content prior to any disturbance.

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

Note: The limited lead-based paint testing is not intended to represent a comprehensive lead-based paint inspection, lead risk assessment or fulfill the testing protocols required by the Department of Housing and Urban Development (HUD) 24 CFR part 35, et al., "Requirements for Notification, Evaluation and Reduction of Lead-Based Paint hazards in Federally Owned Residential Property and Housing Receiving Federal Assistance, Final Rule," June 21, 2004. Additional LBP testing may be required.

F. Asbestos Inspector Certification

I, the undersigned, do hereby certify that I am an accredited Asbestos Inspector in the State of Minnesota. A photocopy of my current asbestos inspector certificate is attached in Appendix F.

Date: 3/22/18

Signature:

Gaia I. Ewing

Environmental Technician

Minnesota Department of Health Asbestos Inspector No: Al13299

Appendix A

Table I. Asbestos Building Inspection Results





The Science You Build On.

Client: Ramsey County

Location: 718 Orange Avenue East; St. Paul, MN

Date of Inspection: March 6, 2018

Project: B1801954

Functional Space	Homogeneous Material Description	Contains Asbestos (Yes/No)	Ref. Client Sample No. (See Table II)	Estimated Quantity Units	Material Condition ¹	Hazard Category ²
Basement	Chimney breaching (gray)	Yes	1	2 ft.²	ND	1
Basement	Plaster	No	2A-E	630 ft.²	D	0
Basement	Fibrous paper duct wrap (white)	Yes	10	15 ft.² vis.	D	5
Main Floor	Vinyl sheet flooring (off- white, 4 inch x 4 inch double square pattern) w/ backing (gray)	No	3	192 ft.²	ND	0
Main Floor - Pantry	Vinyl sheet flooring (brown, designed) w/ backing (gray)	No	4	30 ft.²	ND	0
Main Floor - Kitchen	6 inch by 6 inch ceramic wall tile w/ grout and thin set	No	5	150 ft.²	ND	0
Main Floor	Ceiling and wall texture (popcorn)	No	6A-E	500 ft.²	ND	0
Main Floor	Sheetrock/joint compound	No	7	2,000 ft.²	D	0
Main Floor	Plaster	No	2A-E	900 ft.²	ND	0
Main Floor - Front Entrance	12 inch by 12 inch ceramic floor and wall tile (tan) w/ grout	No	8	30 ft.²	ND	0
Main Floor	Adhesive (tan) between sheetrock and plaster walls	No	9	20 lin. ft. vis.	ND	0
Main Floor	Fibrous paper duct wrap (white)	Yes	10	20 ft.²	D	5
Main Floor	Floor vent cover board (tan)	No	11	3 ft.²	ND	0
Second Floor	Vinyl sheet flooring (white/gray/tan 12 inch square pattern)	No	12	100 ft.²	D	0

Functional Space	Homogeneous Material Description	Contains Asbestos (Yes/No)	Ref. Client Sample No. (See Table II)	Estimated Quantity Units	Material Condition ¹	Hazard Category ²
Second Floor - North Bedroom Closet	12 inch by 12 inch floor tile (gray stone look)	Yes -Floor Tile Only	13	16 ft.²	ND	1
Second Floor - North Bedroom Closet	9 inch by 9 inch floor tile (gray w/gray streaks)	Yes -Floor Tile Only	14	16 ft.²	ND	1
Second Floor - North Bedroom	Residual black mastic	No	15	120 ft.²	ND	0
Second Floor - South Bedroom	9 inch by 9 inch floor tile (white/gray)	Yes -Floor Tile Only	16	150 ft.²	SD	3
Second Floor - Bathroom	Vinyl baseboard (gray) w/ adhesive (tan)	No	17	12 lin. ft.	ND	0
Second Floor	Ceiling and wall texture (popcorn)	No	6A-E	1,200 ft.²	ND	0
Second Floor	Plaster	No	2A-E	2,500 ft.²	ND	0
Second Floor	Sheetrock/joint compound	No	7	200 ft.²	D	0
Second Floor - Bathroom	12-inch by 12-inch ceramic floor and wall tile (tan) w/ grout	No	8	60 ft.²	ND	0
Second Floor - SW Crawl Space	Vinyl sheet flooring (off- white, 4 inch x 4 inch double square pattern) w/ backing (gray)	No	3	25 ft.²	ND	0
Second Floor	Fibrous paper duct wrap (white)	Yes	10	6 ft.²	ND	1
Attic	Blown-in insulation (brown)	No	18	500 ft.²	ND	0
Exterior	Tarpaper (black)	No	19	1,800 ft.²	ND	0
Exterior - Front Door	Caulk (black) - window frame	Yes	20	16 lin. ft.	ND	1
Exterior	Caulk (brown) - metal window frame	No	21	80 lin. ft.	ND	0
Exterior - Back Addition	Caulk (white) - window frame and metal seams	No	22	15 lin. ft.	ND	0
Exterior	Vinyl sheet flooring (white/gray/tan 12 inch square pattern)	No	12	30 ft.²	ND	0



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Functional Space	Homogeneous Material Description	Contains Asbestos (Yes/No)	Ref. Client Sample No. (See Table II)	Estimated Quantity Units	Material Condition ¹	Hazard Category ²
Exterior	Transite siding	Yes	23	1,800 ft.²	ND	1
Roof	Shingles (brown) with tarpaper	No	24	1,875 ft.²	ND	0
Detached Garage - Roof	Shingles (brown) with tarpaper	No	24	600 ft.²	ND	0

1. Condition of ACM:

ND = Not Damaged

D = Damaged

SD = Significantly Damaged

2. Hazard Category:

- 0 = No hazard material does not contain asbestos
- 1 = ACM with potential for damage
- 2 = ACM with potential for significant damage
- 3 = Damaged or significantly damaged asbestos-containing miscellaneous material
- 4 = Damaged or significantly damaged friable asbestos-containing thermal system insulation
- 5 = Damaged or significantly damaged friable asbestos-containing surfacing material



Appendix B

Table II. Bulk Asbestos Analytical Results



The Science You Build On.

Client: Ramsey County

Location: 718 Orange Avenue East; St. Paul, MN

Date of Inspection: March 6, 2018

Project: B1801954

Sample No.		Sample Location		Material	Asbes	tos Content (%)¹
1	Basement	Chimney	North Face	Chimney breaching	Insulation	Chrysotile 25
_					Cement	N.D.²
2A	Basement	North	Wall	Plaster		N.D.
2В	Basement	West	Wall	Plaster		N.D.
2C	Main Floor	Living Room	Chimney	Plaster		N.D.
2D	Second Floor	South Hall	Wall	Plaster		N.D.
2E	Second Floor	Bedroom	North Wall	Plaster		N.D.
3	Main Floor	Kitchen	Floor Vent	Vinyl sheet flooring (off-white, 4 inch x 4 inch double square pattern) w/ backing (gray)		N.D.
4	Main Floor	Pantry	Central	Vinyl sheet flooring (brown, designed) w/ backing (gray)		N.D.
5	Main Floor	Kitchen	East	6 inch by 6 inch ceramic wall tile w/ grout and thin set		N.D.
6A	Main Floor	Kitchen	Ceiling	Ceiling and wall texture (popcorn)		N.D.
6B	Main Floor	Living Room	Ceiling	Ceiling and wall texture (popcorn)		N.D.
6C	Main Floor	Living Room	Ceiling	Ceiling and wall texture (popcorn)		N.D.
6D	Second Floor	Hall	South Wall	Ceiling and wall texture (popcorn)		N.D.
6E	Second Floor	North Bedroom	South Wall	Ceiling and wall texture (popcorn)		N.D.
7	Main Floor	Kitchen	South Wall	Sheetrock/joint compound		N.D.
8	Main Floor	Front Entrance	-	12-inch by 12-inch ceramic floor and wall tile (tan) w/ grout		N.D.
9	Main Floor	Living Room	Chimney	Adhesive (tan) between sheetrock and plaster walls		N.D.
10	Main Floor	Living Room	Near Chimney	Fibrous paper duct wrap (white)	Chrysotile	60
11	Main Floor	Front Entrance	-	Floor vent cover board (tan)		N.D.
12	Second Floor	Hall	North Edge	Vinyl sheet flooring (white/gray/tan 12" square pattern)		N.D.

Sample No.		Sample Location		Material	Asbes	tos Content (%) ¹
13	Second Floor	North		12 inch by 12 inch floor tile (gray	Floor tile	Chrysotile	5
15	Second Floor	Bedroom		stone look) w/ adhesive (tan)	Adhesive	N.D.	
14	Second Floor	North		9 inch by 9 inch floor tile (gray	Floor tile	Chrysotile	5
14	Second Floor	Bedroom	-	w/gray streaks) and mastic (black)	Mastic	N.D.	
15	Second Floor	North Bedroom	Floor	Residual black mastic		N.D.	
16	Second Floor	South	_	9 inch by 9 inch floor tile	Floor tile	Chrysotile	3
10	Second Floor	Bedroom	-	(white/gray) and tarpaper	Tarpaper	N.C).
17	Second Floor	Bathroom	South Wall	Vinyl baseboard (gray) w/ adhesive (tan)	N.D.		
18	Attic	Hatch in Bathroom	-	Blown-in insulation (brown)		N.D.	
19	Exterior	North Face	Porch	Tarpaper (black)		N.D.	
20	Exterior	West Face	Porch	Caulk (black)	Chrysotile	5	
21	Exterior	West	Kitchen Window	Caulk (brown) - metal window frame	N.D.		
22	Exterior	South	Pantry	Caulk (white) - window frame and metal seams		N.D.	
23	Exterior	West	-	Transite siding	Chrysotile 10		
24	Detached Garage	NW corner		Shingles (brown) with tarpaper		N.D.	

^{*} Materials containing 1 percent of asbestos or less are not considered to be asbestos-containing materials by the U.S.EPA.



^{1.} Asbestos content is indicated as an approximate percent by area.

^{2.} N.D. = None Detected

Appendix C

Table III. Lead-Based Paint Testing Results



The Science You Build On.

Client: Ramsey County

Location: 718 Orange Avenue East; St. Paul, MN

Date of Inspection: March 6, 2018

Project: B1801954

Sample I.D. No.	Room/Area		Component Description			Results in mg/cm2	Paint Condition G = Good P = Poor
1		Calibration		Surface		1.1	
2		Calibration		Buried		1.1	
3		Calibration		Surface		1.1	
4		Basement	Chimney	Brick	White	4.30	G
5		Basement	Beam	Wood	White	0.16	G
6		Basement	Door Frame	Wood	White	3.60	G
7		Basement	Wall	Plaster	Gray	0.00	G
8	Basement	Stair	Wall	Wood	White	13.80	G
9	Basement	Stair	Window Frame	Wood	White	10.20	G
10	Basement	Stair	Window sill	Wood	White	6.50	G
11	Main Floor	Kitchen	Door	Wood	White	11.30	G
12	Main Floor	Kitchen	Wall	Sheetrock	White	0.00	G
13	Main Floor	Pantry	Wall	Wood	White	7.80	G
14	Main Floor	Pantry	Siding	Wood	White	8.70	G
15	Main Floor	Living Room	Chimney	Plaster	Gray	0.00	G
16	Main Floor	Living Room	Wall	Plaster	Tan	0.00	G
17	Main Floor	Stairs	Stair Stringer	Wood	Cream	4.60	G
18		Second Floor	Window frame	Wood	White	4.20	G
19		Second Floor	Window Sill	Wood	White	5.50	G
20		Second Floor	Wall	Sheetrock	White	0.00	G
21	Second Floor	Crawl space	Door	Wood	white	16.90	G

Sample I.D. No.	Room/Area		Comp	Component Description			Paint Condition G = Good P = Poor
22	Se	cond Floor	Baseboard	Wood	White	0.24	G
23	Exterior	Porch	Floor	Wood	Gray	1.60	Р
24	Exterior	Porch	Siding	Wood	Gray	8.10	Р
25	Exterior	Porch	Soffit	Wood	White	3.70	Р
26	Exterior	Porch	Window Frame	Wood	Gray	5.00	Р
27	Exterior	Porch	Siding	Wood	White	6.30	G
28		Exterior	Siding	Transite	White	1.40	G
29	Deta	ched Garage	Siding	Wood	White	0.00	G
30		Exterior	Window Frame	Wood	Gray	15.90	Р
31	Exterior	Deck	Deck	Wood	Gray	0.00	G
32	Post	t Calibration		Surface		1.1	
33	Post Calibration			Buried		1.1	
34	Post	t Calibration		Surface		1.0	

mg/cm² = milligrams of lead per square centimeter of paint



Appendix D Bulk Asbestos Analysis Report



EMSL Order: 101800519 **Customer ID:** BRAU50

Customer PO: Project ID:

Attention: Rob Nordby Phone: (952) 995-2000

Braun Intertec Fax: (952) 995-2020

11001 Hampshire Avenue South Received Date: 03/06/2018 2:30 PM

Bloomington, MN 55438 Analysis Date: 03/08/2018
Collected Date: 03/06/2018

Project: B1801954/718 Orange St E

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Asbestos</u>			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
1-Insulation 101800519-0001	BASEMENT @ CHIM. N. FACE, CHIMNEY BREACHING (GRAY)	Gray Fibrous Homogeneous	15% Glass	60% Non-fibrous (Other)	25% Chrysotile	
1-Cement 101800519-0001A	BASEMENT @ CHIM. N. FACE, CHIMNEY BREACHING (GRAY)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
2A 101800519-0002	BASEMENT N. WALL, PLASTER	Gray Non-Fibrous Homogeneous	<1% Glass	100% Non-fibrous (Other)	None Detected	
2B 101800519-0003	BASEMENT W. WALL, PLASTER	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
2C 101800519-0004	MAIN FL. LVG RM CHIM., PLASTER	Gray/White Fibrous Heterogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected	
2D 101800519-0005	2ND FL. HALL S. WALL, PLASTER	Gray/White Fibrous Heterogeneous	<1% Hair	100% Non-fibrous (Other)	None Detected	
2E 101800519-0006	2ND FL. 2. BED. N. WALL, PLASTER	Gray/White Fibrous	<1% Hair	100% Non-fibrous (Other)	None Detected	
3	MAIN FL KITCH. @ FL. VENT, VINYL SHEET FLOORING (OFF-WHITE, 4x4" DOUBLE SQ. PATT.) W/ BACKING (GRAY)	Heterogeneous Tan/White Fibrous Homogeneous	25% Cellulose 3% Synthetic <1% Glass	72% Non-fibrous (Other)	None Detected	
4 101800519-0008	MAIN FL. PANTRY NE CR., VINYL SHEET FLOORING (BROWN, DESIGNED) W/ BACKING (GRAY)	Tan Fibrous Heterogeneous	50% Cellulose <1% Glass 2% Wollastonite	48% Non-fibrous (Other)	None Detected	
5-Ceramic Tile 101800519-0009	MAIN FL. KITCH. E. WALL, 6x6" CERAMIC W.T. (BRN) W/ GROUT & THIN-SET	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
5-Cement 101800519-0009A	MAIN FL. KITCH. E. WALL, 6x6" CERAMIC W.T. (BRN) W/ GROUT & THIN-SET	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
6A 101800519-0010	MAIN FL. KITCH. CEIL., CEILING/WALL TEXTURE (POPCORN)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	

EMSL Order: 101800519 **Customer ID:** BRAU50

Customer PO: Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			3		
Sample	Description	Appearance	Non-Asbesto: % Fibrous	<u>s</u> % Non-Fibrous	<u>Asbestos</u> % Type
6B 101800519-0011	MAIN FL. LVG RM CEIL., CEILING/WALL TEXTURE (POPCORN)	White Non-Fibrous Homogeneous	<1% Fibrous (Other)	100% Non-fibrous (Other)	None Detected
6C 101800519-0012	MAIN FL. LVG RM CEIL., CEILING/WALL TEXTURE (POPCORN)	White Non-Fibrous Homogeneous	<1% Fibrous (Other)	100% Non-fibrous (Other)	None Detected
6D 101800519-0013	2ND FL. HALL S. WALL, CEILING/WALL TEXTURE (POPCORN)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6E 101800519-0014	2ND FL. N. BED S. WALL, CEILING/WALL TEXTURE (POPCORN)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7-Joint Compound	MAIN FL. KITCH. S. WALL, SR/JC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7-Sheetrock	MAIN FL. KITCH. S. WALL, SR/JC	Brown/White Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
8-Ceramic Tile	MAIN FL. FR. ENT. LL. CR., 12x12" CERAMIC F.T./W.T. (TAN) W/ GROUT	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-Grout 101800519-0016A	MAIN FL. FR. ENT. LL. CR., 12x12" CERAMIC F.T./W.T. (TAN) W/ GROUT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01800519-0017	MAIN FL. LVG RM CHIM., ADHESIVE (TAN)-BETWEEN SR/PLAS. WALLS	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10	MAIN FL. LVG RM BY CHIM., FIBROUS PAPER DUCT WRAP (WHITE)	Gray Fibrous Homogeneous		40% Non-fibrous (Other)	60% Chrysotile
11 101800519-0019	MAIN FL. FR. ENT. LL., FLOOR VENT COVER BOARD (TAN)	Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
12 101800519-0020	2ND FL. HALL N. EDGE, VINYL SHEET FLOORING (WHITE/GRAY/TAN) (12x12" SQ. PATT.)	Gray Fibrous Heterogeneous	15% Cellulose 1% Glass	84% Non-fibrous (Other)	None Detected
13-Floor Tile 101800519-0021	2ND FL. N. BED. LL., 12x12: FT (GRAY, STONE LOOK) W/ ADH. (TAN)	Gray Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
13-Adhesive 101800519-0021A	2ND FL. N. BED. LL., 12x12: FT (GRAY, STONE LOOK) W/ ADH. (TAN)	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

EMSL Order: 101800519 **Customer ID:** BRAU50

Customer PO: Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
14-Floor Tile 101800519-0022	2ND FL. N. BED LL., 9x9" FT. (GRAY W/ GRN. STREAKS) W/ BLK. MASTIC	Gray/Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile		
14-Mastic 101800519-0022A	2ND FL. N. BED LL., 9x9" FT. (GRAY W/ GRN. STREAKS) W/ BLK. MASTIC	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected		
15	2ND FL. N. BED. MID., RESIDUAL BLACK MASTIC	Black Non-Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected		
16-Floor Tile	2ND FL. S. BED.	Homogeneous Tan		97% Non-fibrous (Other)	3% Chrysotile		
101800519-0024	MID, 9x9" FT (WHITE/GRAY) W/ BLK. MASTIC	Non-Fibrous Homogeneous		or whom include (editor)	5% GrifySotile		
16-Tar Paper 101800519-0024A	2ND FL. S. BED. MID, 9x9" FT (WHITE/GRAY) W/ BLK. MASTIC	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected		
17-Baseboard	2ND FL. BATH. S. WALL, 4" VINTL	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected		
101800519-0025	BASEBOARD (GRAY) W/ ADH. (TAN)	Homogeneous					
17-Adhesive	2ND FL. BATH. S. WALL, 4" VINTL	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected		
101800519-0025A	BASEBOARD (GRAY) W/ ADH. (TAN)	Homogeneous					
18	ATTIC BATH. @ HATCH, BLOWN-IN	Gray Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected		
101800519-0026 19	INSULATION (BRN) EXT. N. FACE	Homogeneous Black	60% Cellulose	35% Non-fibrous (Other)	None Detected		
19	PORCH, TARPAPER (BLACK)	Fibrous Homogeneous	5% Synthetic	33 % Non-librous (Other)	None Detected		
20	EXT. W. FACE. PORCH, CAULK	Tan/Black Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile		
101800519-0028	(BLACK) - WOOD WIND. FRAME	Homogeneous					
21	EXT. N. FACE KITCH W., CAULK	White Non-Fibrous		100% Non-fibrous (Other)	None Detected		
101800519-0029	(BROWN) - METAL WIND. FRAME	Homogeneous					
22	EXT. S. FACE PANTRY W., CAULK	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected		
101800519-0030	(WHITE) - WIND, FRAME & WALL SEAMS	Heterogeneous					
23	EXT. W. FACE, TRANSITE SIDING	Gray/White Non-Fibrous		90% Non-fibrous (Other)	10% Chrysotile		
101800519-0031		Homogeneous					
24-Shingle	D. GAR. NW CR., SHINGLES (BRN) W/	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
101800519-0032 24-Tar Paper	D. GAR. NW CR.,	Homogeneous Black	60% Cellulose	40% Non-fibrous (Other)	None Detected		
101800519-0032A	SHINGLES (BRN) W/ TARPAPER	Fibrous Homogeneous					



EMSL Order: 101800519 Customer ID: BRAU50

Customer PO: Project ID:

Analy	/st/s)	
Allal	y ot(o)	

Steve Felton (41)

Mark Erickson, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by Minneapolis IH Minneapolis, MN NVLAP Lab Code 101234-0, Colorado AL-23741

OrderID: 101800519



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

EMSL-Bill to Same EMSL-Bill to EMSL-Bi							
City: Minnespolis Report To (Name): Robert Nordby/Gaia Ewing Project Name/Number; 19/2 01-954; **Tit Crons 5+ F. Project Name/Number; 19/2 01-954; **	Company: Braun Intertec Corp.				EMSL-Bill to: Same X Different If Bill to is Different note instructions in Comments**		
State Province: MN Telephnore #: \$52-\$52-\$52-\$000 Purchase Order: Province: Mn State Province: Mn State Province: Mn State Province: Mn State St	Street: 11001 Hampshire Avenue South			ıth	Third Party Billing requires written authorization from third party		
Report To (Name): Robert Nordby/ Gaia Ewing Date: Pease Provide Pease	City: Minneapolis State/Province: MN						
Project Name/Number: [stig cjars] Titte crants_cst Please Provide Results: Pax Email	Report To (Na	ame); R	Robert Nordby/ G	Baia Ewing	Telephone #:		
Project Name/Number: [stig cjars] Titte crants_cst Please Provide Results: Pax Email		rno ss: _{aev}	ropy@brauninterte ving@brauninterte	ec.com ebienick @		2020 Purchase Order:	
CT Samples: Commencial/Taxable Residential/Tax Exempt Turnaround Time (TAT) Options: Please Check Service		/Numbe	er: 151801954	718 crance St F			
Shour 6 Hour 24 Hour 24 Hour 24 Hour 25 Hour 26 Hour 24 Hour 26 Hour 26 Hour 26 Hour 26 Hour 26 Hour 26 Hour 26 Hour 26 Hour 26 Hour 26 Hour 26 Hour 26 Hour	U.S. State San	mples T	aken: Minnes	sota	CT Samples:		x Exempt
For TEM Are 3 for through 6 for, please cell alread to schedule. "There is a pre-nume charge for 3 Hour TEM ANEXA or EM Audit Cell Price Guide. PLM = Bulk (reporting limit) PLM EPA NOB (-1%)				Turnaround Time (T			
an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Condition soleded in the Analysis Place Guide. PLM - Bulk (reporting limit) IEM - Bulk I							
PLM EPA 600/R-93/116 (c1%) TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 PLM EPA NOB (c1%) TNY ELAP Method 198.4 (TEM) Point Count 400 (<0.25%) 1000 (<0.1%) Point Count 400 (<0.25%) 1000 (<0.1%) Point Count 400 (<0.25%) 1000 (<0.1%) NIOSH 900/C (-1%) NIOSH 900/C (-1%) NY ELAP Method 198.1 (friable in NY) NY ELAP Method 198.6 NOB (non-friable-NY) CSHA ID-191 Modified Standard Addition Method Point Count (400-non/grav.) if results are <1%, do not Point Count if N.D. Sampler Name: Gala Ewing (MDH #A1 724/4) Sampler Name: Gala Ewing (MDH #A1 724/4) Sample # HA # Sample Location Sample # HA # Sample Location Client Sample # (s): See above or see attached table The sample Received (Lab): Time: Point Count (400-non/grav.) up to 5 samples; if >5 Invoice sent to Jen Cort (groft@bravininetecc.com) Invoice sent to Jen Cort (groft@bravininetecc.com) Total # of Sample for Cort (groft@bravininetecc.com) Comments/Special Instructions: Point Count (400-non/grav.) up to 5 samples; if >5 Invoice sent to Jen Cort (groft@bravininetecc.com) Total # of Sample for Cort (groft@bravininetecc.com) Total # of Samples invoice sent to Jen Cort (groft@bravininetecc.com) Total # of Samples invoice sent to Jen Cort (groft@bravininetecc.com) Total # of Samples: Time: Time: 1/3 Comments/Special Instructions: Point Count (400-non/grav.) up to 5 samples; if >5 Invoice sent to Jen Cort (groft@bravininetec.com)	*For TEM Air 3 h	hr through orization fo	o 6 hr, please call at form for this service.	head to schedule.*There is a p Analysis completed in accor	remium charge for 3 Ho dance with EMSI 's Terr	ur TEM AHERA or EPA Level II TAT. You will be a ns and Conditions located in the Analytical Price Gu	sked to sign
PLM EPA NOB (<1%)	an adino				SUITED WITH EINIOL O TOTA		
PLM EPA NOB (<1%)	X PLM EPA 6				☐ TEM EPA NOB	- EPA 600/R-93/116 Section 2.5.5.1	
Point Count 400 (<0.25%) 1000 (<0.1%) Chatfield Protocol (semi-quantitative) Chief South w/Gravimetric 400 (<0.25%) 1000 (<0.1%) TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2 TEM (Subitative via Filtration Prep Technique TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2 TEM Qualitative via Drop Mount Prep Technique TEM Qualitative via Drop			` '				
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NIOSH 9002 (<1%) TEM Qualitative via Filtration Prep Technique TEM Qualitative via Filtration Prep Technique TEM Qualitative via Drop Mount Prep Technique Tem Qual			•	•	☐ TEM % by Mas	s – EPA 600/R-93/116 Section 2.5.5.2	
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OSHA ID-191 Modified Standard Addition Method Export Count (400-non/grav.) if results are <1%, do not Point Count if N.D. OSHA ID-191 Modified Standard Addition Method Standard Addition Material Description				NY)	☐ TEM Qualitative	e via Drop Mount Prep Technique	
Standard Addition Method Standard Addition Method Point Count (400-hongray.) if results are <1%, do not Point Count (11 N.D.) Standard Addition Method Date Sampled: 8 C B Samplers Name: Gaia Ewing (MDH #AI 1224a) Samplers Signature:	☐ NY ELAP N	Method	198.6 NOB (non	n-friable-NY)		<u>Other</u>	
Standard Addition Method Standard Addition Method Date Sampled: 3 C B	OSHA ID-1	191 Mod	dified	·	☑ Point Count (40)	Departure Vifregults are <1% do not Point Cou	nt if N D
Samplers Name: Gaia Ewing (MDH #AI 1324) Sample # HA # Sample Location Material Description SEE TANK II' Client Sample # (s): See above or see attached table / -7H Total # of Samples: 3/2 Relinquished (Client): Gaia Ewing (MDH #AI 1326) Date: 3/6/14 Time: Received (Lab): Wi Date: 3/6/18 Time: 14:3 C Comments/Special Instructions: Point Count (400-non/grav.) up to 5 samples, if >5 Invoice sent to: Jen Croft ([croft@braunintertec.com)	☐ Standard A	Addition	Method		M TONK COUNT (40		ik ii iti.D.
Sample # HA # Sample Location Material Description SEE TABLE IT! Client Sample # (s): See above or see attached table / - 7# Total # of Samples: 37 Relinquished (Client): Gaia Ewing (MDH #AI 132M Date: 3/6/14 Time: Received (Lab):	X Check For	Positiv	e Stop – Clearl	y Identify Homogenous	Group Date San	npled: 8)6/8	
Client Sample # (s): See above or see attached table / - 74 Total # of Samples: 37 Received (Lab):	Samplers Nan	me: Gaia	Ewing (MDH #Al	13299	Samplers Sig	gnature:	
Client Sample # (s): See above or see attached table / - 74	1 1	- 1					
Client Sample # (s): See above or see attached table / - 74	Sample # H					Material Description	
Received (Lab): Comments/Special Instructions: Point Count (400-non/grav.) up to 5 samples, if >5 Invoice sent to: Jen Croft (jcroft@braunintertec.com)	Sample # H		EE Tabl			Material Description	
Received (Lab): Comments/Special Instructions: Point Count (400-non/grav.) up to 5 samples, if >5 Invoice sent to: Jen Croft (jcroft@braunintertec.com)	Sample# H		EE"Tabl			Material Description	
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Received (Lab): Comments/Special Instructions: Point Count (400-non/grav.) up to 5 samples, if >5 Invoice sent to: Jen Croft (jcroft@braunintertec.com)	Sample # H		EE Tabl			Material Description	
Received (Lab): Comments/Special Instructions: Point Count (400-non/grav.) up to 5 samples, if >5 Invoice sent to: Jen Croft (jcroft@braunintertec.com)	Sample # H		EE Tabl			Material Description	
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Received (Lab): Comments/Special Instructions: Point Count (400-non/grav.) up to 5 samples, if >5 Invoice sent to: Jen Croft (jcroft@braunintertec.com)	Sample # H		EE Table			Material Description	
Received (Lab): Comments/Special Instructions: Point Count (400-non/grav.) up to 5 samples, if >5 Invoice sent to: Jen Croft (jcroft@braunintertec.com)				L ID"	7.4		•
tolk Count (100 hours) as to the count (100 hours) as the count (100 hour	Client Sample	e # (s):	See above or see	e attached table	7.H te: 3/6/14	Total # of Samples: 32	•
	Client Sample Relinquished	e # (s):	See above or see	e attached table / - 7	1 2	Total # of Samples: 32	

Controlled Document - Asbestos COC - R6 - 11/29/2012

Page 1 of 3 pages

101800519

Table II. Bulk Asbestos Analytical Results

Address Project #

Project #

Oranje Co

32 SAMPLES

	· ·			32 SAMPLES
Sample No.		Sample Location		Material Asbestos Content (%) ¹
1	BASQUENT	e thu.	N. FACE	CHIMNEY BREACHING (GRAY)
ZA	1	N. Wan		PLASTER
28		w. wore		
23	MANTEL.	WG	CHM.	
20	24 Pr		Simu	
28	1	5. Lad.	r. .macr	
3	MAN FL		er.	YWYL SHEET FLOORING COFF-WHITE, YMY" POUBLE SO. PATI) -/ BACKING (GRAY)
Ч	4	RANTRY	NE CK.	() MYL SHEET ELOOPING (BROWN, DESIGNED) W/ DIKKING (GRAY)
5		KITCH.	r. Whi	(BEN) of GROAT & THIN-SET
6A		1	VEIL-	CEILNG/MAN TEXTIRE
6B		won		
66		1	4	
6D	WP.	HAZL	5 war	
6E		N, DFO).		
7	MAINFL.	KITCH.	- 4	seloc
8		FP. PM-	CL- CP.	12x12" CEBAUK FIT/WIT. (TAN) W/ GROUT
9		Ma	CHIM.	ADHERNE (TAN)-BETWEN SE/PLAS_ WANS
10		4	BY HUM.	FIBROUS PATER OVET WAAP (WATE)
}1	1	PR tur	U.	FLOOR VENT CARR. BUAPA CTAN
12	WR	Han	N. tilbe	VWYL SHEET FURLIKE (WHITE/GRAY/TANG) [242-50. PMT.)
13	1	MAD.	lli	IZXIZ" FT (GBAY, STOLE LOOK) W/ ADH. (TAN)
14			+	GX9" FT. (GRM M) GRN. STREAKS) W/ DX. MASTIL
15	4	4	MD.	PESDAL BLACK MASTIL

101800519

Table II. Bulk Asbestos Analytical Results

Address Project #

Page 10

200)_

Orny	Sb
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					2002
Sample No.		Sample Location		Material	Asbestos Content (%) ¹
16	2ºFL	5. B(n.	MØ,	9x9" FT (WHITE/GMY) w) BLY. MISTIL	
17	+	DATE-	5. Wer	4 VIMIL BLIEBERFD (GRAY) -1 AMH. ETAN)	
18	AAIC	1	e HATAI	BLOWN INTERIOR (BELL)	
19	EXT.	PACE	por M	TARPATER (BLACK)	
20	1	nel	-	CANCE (BLACE) - WIND WWW.	
21		W)	MA M	CANK (BROWN) - METAL	
22		2-4	PAMPY &	CANK (BLOWN) - WITO WAR. CANK (BLOWN) - METAL MAD. FRANCE CANK (MITTE) - W. FRANCE & MALL	TEAMS
23	1	w-+		TEANSITE SIDING	
24	D-Gter	NW CP.		SHINGLES (BRM) W/ TARPAP	er

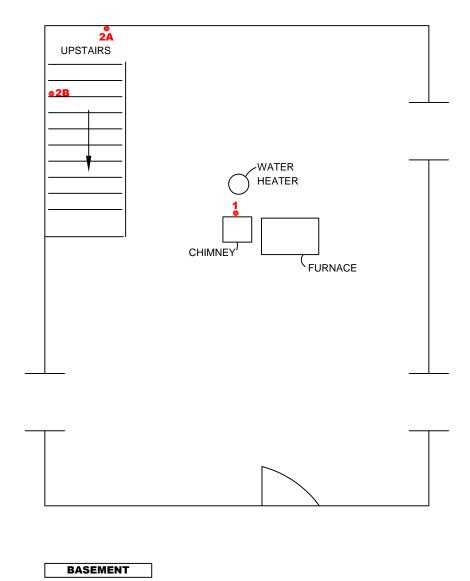
^{*} Materials containing 1 percent of asbestos or less are not considered to be asbestos-containing materials by the U.S.EPA.



^{1.} Asbestos content is indicated as an approximate percent by area.

^{2.} N.D. = None Detected

Appendix E
Sample Location Sketch



ASBESTOS SAMPLE LOCATION



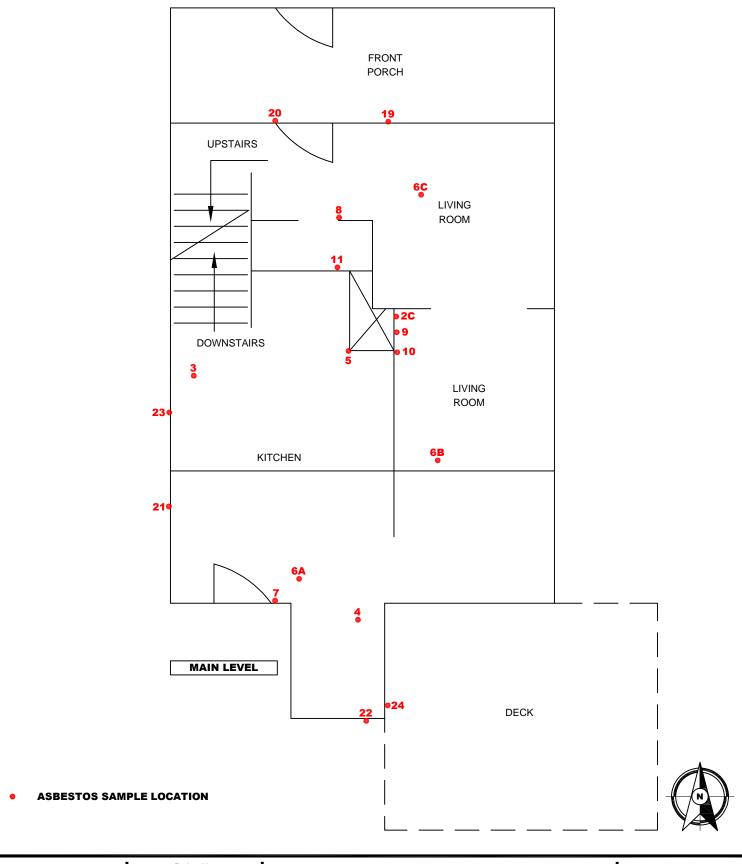
BRAUN
INTERTEC
The Science You Build On.

11001 Hampshire Avenue S
Minneapolis, MN 55438
952.995.2000
braunintertec.com

Project No: B1801954	
Drawing No: B1801954	
Drawn By:	LAO
Date Drawn:	3/8/18
Checked By:	EB
Last Modified:	3/8/18

Pre-Renovation Hazardous Building Material Inspections
Ramsey County
718 Orange Street E
St. Paul, Minnesota

Sample Location Sketch





11001 Hampshire Avenue S Minneapolis, MN 55438 952.995.2000 braunintertec.com

	Project No: B1801954
	Drawing No: B1801954
Drawn E Date Dra Checker	awn:

Last Modified:

LAO

EB

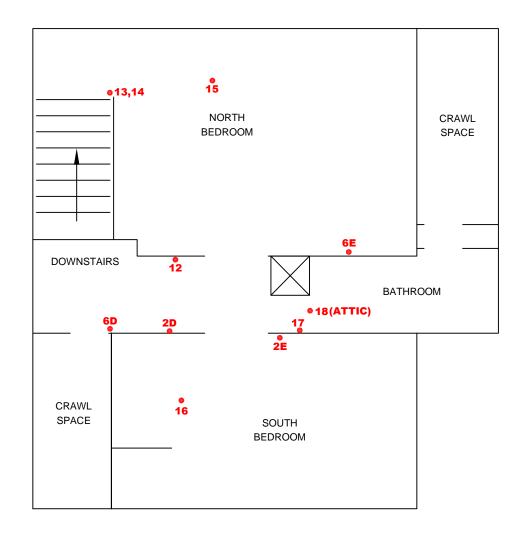
3/8/18

3/8/18

Pre-Renovation Hazardous Building Material Inspections
Ramsey County
718 Orange Street E

St. Paul, Minnesota

Sample Location Sketch



SECOND LEVEL

ASBESTOS SAMPLE LOCATION



BRAUN
INTERTEC
The Science You Build On.
44004

11001 Hampshire Avenue S Minneapolis, MN 55438			
952.995.2000			
braunintertec.com			

I	Project No: B1801954		Pre
١	Drawing No: B1801954		
	Drawn By: Date Drawn: Checked By: Last Modified:	LAO 3/8/18 EB 3/9/18	

Pre-Renovation Hazardous Building Material Inspections		
Ramsey County		
718 Orange Street E		
St. Paul, Minnesota		

Sample Location Sketch

Appendix F Asbestos Inspector Certificate



This is to certify that

Gaia Ewing

has attended and successfully completed an

ASBESTOS INSPECTOR REFRESHER TRAINING COURSE

permitted by
the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722
and meets the requirements of
Section 206 of Title II of the Toxic Substances Control Act (TSCA)
conducted by

Lake States Environmental, Ltd.

Hudson, WI on June 12, 2017 Examination Date: June 12, 2017

Lake States Environmental, Ltd P. O. Box 645, Rice Lake, WI 54868 (800) 254-9811





State of Minnesota
Department of Health
Expires: 06/1:
Gaia I. Ewing
2550 Grand St NE

y Minnesota nt of Health s: 06/12/2018