

Pre-Renovation Hazardous Building Materials Inspection Report

Residential Building
957 Mendota Street
Saint Paul, Minnesota

Prepared for

Ramsey County



Project B1602097.01
May 5, 2016

Braun Intertec Corporation

May 6, 2016

Project B1602097.01

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

Re: Pre-Renovation Hazardous Building Material Inspection Report
Residential Building
957 Mendota Street
Saint Paul, Minnesota

Dear Mr. Scharf:

The enclosed report provides the results of the pre-renovation hazardous building materials inspection conducted on April 13, 2016, at the residential building located at 957 Mendota Street in Saint Paul, Minnesota (Site). Braun Intertec Corporation was authorized to conduct this inspection in accordance with our Proposal QTB035378 dated March 15, 2016 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 Justin Michael at 952.995.2617 or Stephen Luth at 952.995.2662.

Sincerely,

BRAUN INTERTEC CORPORATION


Justin P. Michael, GIT
Environmental Technician


Stephen A. Luth
Project Scientist

Attachments:
Pre-Renovation Hazardous Building Materials Inspection Report

AA/EOE

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- B: Table II. Bulk Asbestos Analytical Results
- C: Table III. Lead-Based Paint Testing Results
- D: Bulk Asbestos Analysis Reports
- E: Sample Location Sketch
- F: Asbestos Inspector Certificate

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 (LBP) testing of potential re-useable components with painted surfaces suspected of containing lead (where applicable). Testing will be accomplished using a Niton X-ray fluorescence (XRF) spectrum analyzer.
- 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 and recommendations.

B. Site Description

The subject of the inspection is the residential building located at 957 Mendota Street in Saint Paul, Minnesota. The dwelling is a two level wood structure with a basement. It was constructed in 1894 and has a footprint that encompasses approximately 800 square feet. The dwelling is constructed of wood, concrete and concrete block foundation walls. The typical interior finishes included plaster, sheetrock/joint compound, floor tile, wall texture, ceiling texture, carpet, and vinyl sheet flooring. The exterior of the dwelling has vinyl and wood siding with an asphalt roof shingle roof system. The building was vacant and unoccupied at the time of the inspection.

C. Results

C.1. Asbestos

Fifty (50) bulk samples were collected on April 13, 2016 and submitted to Pace Analytical, Inc. for 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).

- 12" by 12" Vinyl Flooring with Yellow Mastic
- TSI duct wrap located throughout the dwelling contains 50 percent chrysotile
- Residual flashing located on the roof contains 10 percent chrysotile
- Duct taping located in the basement contains 50 percent chrysotile
- Electric wire cloth jacket in the basement was not sampled due to safety precautions, and therefore assumed to contain greater than 1 percent asbestos

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).

- Splatter Texture Ceiling Plaster
- Popcorn Texture Plaster
- Counter Mastic, Brown
- Drywall
- Window Glaze
- Small Texture Plaster
- Millboard, Brown Fibrous
- Sheet Flooring, Brown
- Small Popcorn Texture Plaster
- 9" by 9" Floor Tile with Brown Mastic
- 12" by 12" Sheet Flooring, Gray
- Cove Base Mastic
- Shingle, Gray
- Window Caulk

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. A sample location map is attached as Appendix E.

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-milcurie 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.

- Plaster walls in the kitchen and the stairwell on the 1st floor and all plaster walls on the 2nd floor and in the basement.
- Plaster ceilings in the stairwell and the 2nd floor hallway
- Wood trim and baseboards in the Front room, stairwell and the 2nd floor hallway and bedrooms.
- Wood stair risers and newel post in the stairwell.
- Wood flooring in the Entryway, hallway, bedroom floors (blue)
- Basement wood post and concrete walls white.
- Basement metal pipes.
- Basement window components.
- All interior wood window jambs and troughs. Window sash in the entryway and living room.
- All exterior wood window sashes, sills, troughs, jambs and cases.
- All exterior walls, behind metal siding.
- All exterior doors and door jambs.
- Exterior porch deck post, beams, and soffits

Note: The painted components were observed to be in poor to good condition at the time of the inspection.

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. Poly-Chlorinated Biphenyls (PCBs)

- None identified

C.3.b. Mercury

- Batteries – smoke detectors, emergency lighting, and security system.
- Heating – boiler controls, unit heater controls, thermostats
- Electrical Systems – electrical panels, load meters, supply relays, control switches.

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

- None identified

C.3.d. Hazardous Waste

- Chemicals – boiler chemicals, paints cans

C.3.e. Miscellaneous

- Water heaters
- Bathroom fans

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):

- 12" by 12" vinyl flooring with yellow mastic located in the living and dining room contains 5 percent chrysotile(asbestos)
- TSI duct wrap in the basement
- Duct Tape in the basement
- Wire Cloth Jacket (assumed) in the basement

The above friable ACM was observed to be in good condition at the time of our assessment. This material 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):

Residual flashing located on the roof contains 10 percent chrysotile

The above Category I non-friable ACM was observed to be in good condition at the time of our assessment. This material 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. Category I materials in good condition may be left in place for demolition. However, 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:

- None identified

The above Category II non-friable ACMs were observed to be in good condition at the time of our assessment. 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.

Note: A destructive ACM investigation is required by the MPCA prior to building renovation/demolition. It is recommended that the destructive ACM investigation is performed once the building is vacant.


Note: Various electrical systems were identified during the survey. These systems were believed to be currently "charged" and active. Suspect materials are located within these electrical boxes, control panels (breaker bars, insulation, and electrical wire insulation). For the purpose of this report, all electrical systems associated in these areas assessed are to be assumed to contain asbestos until proven otherwise by sampling and analysis.

Note: It is assumed that pipe insulation may be present in currently inaccessible chases, wall cavities, and above hard ceilings.

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.

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.

Signature:  Date: May 6th, 2016
Justin P. Michael
Environmental Technician II
Minnesota Department of Health Asbestos Inspector No: AI12434

Signature:  Date: 5/6/16
Stephen A. Luth
Project Scientist
Minnesota Department of Health Asbestos Inspector No: AI10702

Appendix A

Table I. Asbestos Building Inspection Results

Table I. Asbestos Building Inspection Results

Client: Ramsey County Department of Development

Location: 957 Mendota Street

Date of Inspection: April 13, 2016

Project: B1602097.01

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
Kitchen	Splatter Texture Ceiling Plaster	No	1A - 1E	420 square feet	D	0
Kitchen	Popcorn Texture Plaster	No	2A - 2E	300 square feet	D	0
Kitchen	Counter Mastic, brown	No	3	8 square feet	D	0
Kitchen	Drywall	No	4	820 square feet	D	0
Kitchen	Window Glaze	No	5	5 at 10 linear feet	D	0
Kitchen	Millboard, brown and fibrous	No	8	1,000 square feet	ND	0
Living/Dining Room	Splatter Texture Ceiling Plaster	No	1A - 1E	24 square feet	D	0
Living/Dining Room	Popcorn Texture Plaster	No	2A - 2E	670 square feet	D	0
Living/Dining Room	Drywall	No	4	1,400 square feet	D	0
Living/Dining Room	12" by 12" Sheet Flooring with Yellow Mastic	Yes	6	25 square feet	ND	2
Living/Dining Room	Window Glaze	No	5	10 at 14 linear feet	ND	0
Living/Dining Room	Small Texture Plaster	No	7A - 7C	900 square feet	D	0
Living/Dining Room	Sheet flooring, brown	No	9	20 square feet	D	0
Stairwell Up to 2nd Level	Splatter Texture Ceiling Plaster	No	1A - 1E	1,600 square feet	D	0
2nd Floor	Splatter Texture Ceiling Plaster	No	1A - 1E	800 square feet	D	0
2nd Floor	Popcorn Texture Plaster	No	2A - 2E	300 square feet	D	0
2nd Floor	Small Popcorn Texture Plaster	No	11A - 11C	800 square feet	D	0
2nd Floor	9" by 9" Floor Tile with Brown Mastic	No	12	600 square feet	D	0
2nd Floor	Window Glaze	No	5	8 at 14 linear feet	D	0
2nd Level Bathroom	12" by 12" Sheet Flooring, Gray	No	13	50 square feet	D	0
2nd Level Bathroom	Cove Base Mastic	No	14	30 linear feet	D	0
Basement	TSI duct wrap	Yes	10	3 at 15 linear feet	D	4
Basement	Duct Tape	Yes	17	30 square feet	D	3

Table I. Asbestos Building Inspection Results

Table I. Asbestos Building Inspection Results

957 Mendota Street, St. Paul, Minnesota

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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
Basement	Wire Cloth Jacket		Assumed	50 linear feet	D	
Exterior	Shingle, Gray	No	15	1,200 square feet	D	0
Exterior	Residual Flashing	Yes	16	150 linear feet	D	3
Exterior	Window Caulk	No	18	16 at 14 linear feet	D	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

Table II. Bulk Asbestos Analytical Results

Client: Ramsey County Economic Development
Location: 957 Mendota Street
Date of Inspection: April 13, 2016
Project: B1602097.01

Sample No.	Sample Location			Material	Asbestos Content (%) ¹
1A - 1E	Kitchen			Splatter Texture Ceiling Plaster	None Detected
2A - 2E	Kitchen			Popcorn Texture Plaster	None Detected
3	Kitchen			Counter Mastic, Brown	None Detected
4	Kitchen			Drywall	None Detected
5	Kitchen			Window Glaze	None Detected
6	Living and Dining Room			12" by 12" Vinyl Flooring with Yellow Mastic	Chrysotile 5
7A - 7C	Living and Dining Room			Small Texture Plaster	None Detected
8	Kitchen			Millboard, Brown Fibrous	None Detected
9	Living and Dining Room			Sheet Flooring, Brown	None Detected
10	Throughout			TSI duct wrap	Chrysotile 50
11A - 11C	Garage			Small Popcorn Texture Plaster	None Detected
12	Second Floor			9" by 9" Floor Tile with Brown Mastic	None Detected
13	Second Floor			12" by 12" Sheet Flooring, Gray	None Detected
14	Second Floor			Cove Base Mastic	None Detected
15	Exterior			Shingle, Gray	None Detected
16	Exterior			Residual Flashing	Chrysotile 10
17	Basement			Duct Tape	Chrysotile 50
18	Exterior			Window Caulk	None Detected

* 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.

Appendix C

Table III. Lead-Based Paint Testing Results

Client: Ramsey County
Location: 957 Mendota Street, St. Paul, MN.
Date of Ins 13-Apr-16
Project #: B1602097.01

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
240	cal					957 n	FIRST	KITCHEN	Positive	1.1	0.1	1.1	0.1	0.5	0.3
241	cal					957 n	FIRST	KITCHEN	Positive	1.1	0.1	1.1	0.1	0.7	0.3
242	cal					957 n	FIRST	KITCHEN	Positive	1.1	0.1	1.1	0.1	< LOD	0.4
243	WALL	PLASTER	A	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.14	< LOD	0.14	< LOD	1.47
244	WALL	PLASTER	A	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.41
245	WALL	PLASTER	B	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.21	< LOD	0.21	< LOD	1.55
246	WALL	PLASTER	B	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.13	< LOD	0.13	< LOD	2.1
247	WALL	PLASTER	C	INTACT	WHITE	957 n	FIRST	KITCHEN	Positive	2.2	0.8	< LOD	0.46	2.2	0.8
248	WALL	PLASTER	C	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.07	< LOD	0.07	< LOD	1.94
249	WALL	PLASTER	B	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.31	< LOD	0.31	< LOD	1.94
250	WALL	PLASTER	B	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.31	< LOD	0.31	< LOD	2.23
251	WALL	PLASTER	D	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.21	< LOD	0.21	1	0.6
252	CHAIR RAIL	WOOD	A	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.25	< LOD	0.25	< LOD	2.25
253	CHAIR RAIL	WOOD	B	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.08	< LOD	0.08	< LOD	1.98
254	CHAIR RAIL	WOOD	C	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.14	< LOD	0.14	< LOD	2.09
255	BASEBOARD	WOOD	C	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.05	< LOD	0.05	< LOD	1.68
256	BASEBOARD	WOOD	B	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.11	< LOD	0.11	< LOD	2.12
257	BASEBOARD	WOOD	A	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.09	< LOD	0.09	< LOD	2.24
258	CEILING	PLASTER	D	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.19	< LOD	0.19	< LOD	1.65
259	CEILING	PLASTER	D	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.46
260	WINDOW	WOOD	B	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.88
261	WINDOW	WOOD	B	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.11	< LOD	0.11	< LOD	2.05
262	WINDOW	WOOD	B	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.21	< LOD	0.21	< LOD	1.95
263	WINDOW J	WOOD	B	POOR	BROWN	957 n	FIRST	KITCHEN	Positive	< LOD	17.7	< LOD	6.75	< LOD	17.7
264	WINDOW T	WOOD	B	POOR	BROWN	957 n	FIRST	KITCHEN	Negative	0.26	0.14	0.26	0.14	1.1	0.6
265	DOOR	WOOD	C	POOR	BROWN	957 n	FIRST	KITCHEN	Negative	< LOD	0.14	< LOD	0.14	< LOD	1.88
266	DOOR	WOOD	C	POOR	BROWN	957 n	FIRST	KITCHEN	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.88

<LOD = Below the limit of detection

SIDE A= east, B=south, C= west, D=north

Client: Ramsey County
Location: 957 Mendota Street, St. Paul, MN.
Date of Ins 13-Apr-16
Project #: B1602097.01

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
267	DOOR J	WOOD	C	POOR	BROWN	957 n	FIRST	KITCHEN	Positive	< LOD	18.6	< LOD	8.1	< LOD	18.6
268	CABINET	WOOD	D	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	1.52	< LOD	1.2	< LOD	1.52
269	CABINET	WOOD	D	INTACT	YELLOW	957 n	FIRST	KITCHEN	Negative	< LOD	0.22	< LOD	0.22	< LOD	1.34
270	CABINET	WOOD	D	INTACT	WHITE	957 n	FIRST	KITCHEN	Negative	< LOD	0.73	< LOD	0.73	< LOD	2.02
271	DOOR	WOOD	A	INTACT	BROWN	957 n	FIRST	KITCHEN	Negative	< LOD	0.46	< LOD	0.46	< LOD	2.4
272	WALL	PLASTER	A	INTACT	BEIGE	957 n	FIRST	STAIR	Positive	10.6	7	< LOD	15.75	10.6	7
273	WALL	PLASTER	B	INTACT	BEIGE	957 n	FIRST	STAIR	Positive	3.5	2.2	3.5	2.2	< LOD	5.25
274	WALL	PLASTER	C	INTACT	BEIGE	957 n	FIRST	STAIR	Negative	< LOD	0.16	< LOD	0.16	< LOD	3
275	WALL	PLASTER	D	POOR	BEIGE	957 n	FIRST	STAIR	Positive	6.8	3.9	< LOD	8.7	6.8	3.9
276	CEILING	PLASTER	D	POOR	BEIGE	957 n	FIRST	STAIR	Positive	< LOD	10.35	< LOD	22.35	< LOD	10.35
277	TREAD	WOOD	D	POOR	WHITE	957 n	FIRST	STAIR	Negative	< LOD	0.09	< LOD	0.09	< LOD	1.95
278	RISER	WOOD	D	POOR	WHITE	957 n	FIRST	STAIR	Negative	< LOD	0.3	< LOD	0.3	< LOD	1.52
279	FLOOR	WOOD	D	POOR	STAIN	957 n	FIRST	KITCHEN	Negative	< LOD	0.5	< LOD	0.5	< LOD	1.94
280	WALL	PLASTER	A	POOR	WHITE	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.95
281	WALL	PLASTER	B	POOR	WHITE	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.73
282	WALL	PLASTER	C	POOR	WHITE	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.94
283	WALL	DRYWALL	C	POOR	WHITE	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	1.2	0.5
284	WALL	DRYWALL	D	POOR	WHITE	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.06
285	WALL	DRYWALL	D	POOR	WHITE	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.04	< LOD	0.04	< LOD	1.92
286	CEILING	DRYWALL	D	POOR	WHITE	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.24
287	CEILING	DRYWALL	D	POOR	WHITE	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.02
288	FLOOR	WOOD	D	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.09	< LOD	0.09	< LOD	2.15
289	BASEBOARD	WOOD	D	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.22	< LOD	0.22	< LOD	1.84
290	DOOR	WOOD	A	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.05	< LOD	0.05	< LOD	1.56
291	DOOR	WOOD	A	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.04	< LOD	0.04	< LOD	1.93
292	WINDOW	WOOD	B	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Positive	2.5	1.5	< LOD	1.2	2.5	1.5
293	WINDOW	WOOD	B	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.45	< LOD	0.45	< LOD	2.25

<LOD = Below the limit of detection

SIDE A= east, B=south, C= west, D=north

Client: Ramsey County
Location: 957 Mendota Street, St. Paul, MN.
Date of Ins 13-Apr-16
Project #: B1602097.01

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
294	WINDOW	WOOD	B	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Positive	1.7	0.7	0.8	0.3	1.7	0.7
295	WINDOW J	WOOD	B	INTACT	BROWN	957 n	FIRST	LIVING ROOM	Positive	< LOD	15.9	< LOD	8.85	< LOD	15.9
296	WINDOW T	METAL	B	INTACT	BROWN	957 n	FIRST	LIVING ROOM	Positive	< LOD	10.95	< LOD	0.31	< LOD	10.95
297	WINDOW	WOOD	D	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.04	< LOD	0.04	< LOD	1.52
298	WINDOW	WOOD	D	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.1	< LOD	0.1	< LOD	1.69
299	WINDOW	WOOD	D	INTACT	STAIN	957 n	FIRST	LIVING ROOM	Negative	< LOD	0.06	< LOD	0.06	< LOD	1.89
300	WALL	PLASTER	A	INTACT	BLUE	957 n	FIRST	FRONT	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.19
301	WALL	PLASTER	B	INTACT	BLUE	957 n	FIRST	FRONT	Negative	< LOD	0.03	< LOD	0.03	< LOD	3
302	WALL	PLASTER	C	INTACT	BLUE	957 n	FIRST	FRONT	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.21
303	WALL	PLASTER	D	INTACT	BLUE	957 n	FIRST	FRONT	Negative	< LOD	0.04	< LOD	0.04	< LOD	1.87
304	CEILING	PLASTER	D	INTACT	WHITE	957 n	FIRST	FRONT	Negative	< LOD	0.05	< LOD	0.05	< LOD	1.05
305	BASEBOARD	WOOD	A	INTACT	WHITE	957 n	FIRST	FRONT	Positive	2.7	1.6	< LOD	1.65	2.7	1.6
306	WINDOW	WOOD	A	INTACT	WHITE	957 n	FIRST	FRONT	Negative	< LOD	0.07	< LOD	0.07	< LOD	2.04
307	WINDOW	WOOD	A	INTACT	WHITE	957 n	FIRST	FRONT	Negative	< LOD	0.05	< LOD	0.05	< LOD	1.74
308	WINDOW	WOOD	A	INTACT	WHITE	957 n	FIRST	FRONT	Negative	< LOD	0.04	< LOD	0.04	< LOD	1.63
309	WINDOW j	WOOD	A	INTACT	BROWN	957 n	FIRST	FRONT	Positive	< LOD	7.65	< LOD	7.65	< LOD	9.15
310	WINDOW t	METAL	A	INTACT	BROWN	957 n	FIRST	FRONT	Positive	< LOD	7.95	< LOD	4.35	< LOD	7.95
311	FLOOR	WOOD	A	INTACT	grey	957 n	FIRST	FRONT entry	Positive	< LOD	7.95	< LOD	1.8	< LOD	7.95
312	WINDOW sash	WOOD	B	INTACT	WHITE	957 n	FIRST	FRONT entry	Positive	3.2	2.1	< LOD	3.6	3.2	2.1
313	WINDOW j	WOOD	B	INTACT	WHITE	957 n	FIRST	FRONT entry	Positive	2.1	1.1	2.1	1.1	< LOD	1.95
314	DOOR	WOOD	A	INTACT	WHITE	957 n	FIRST	FRONT entry	Positive	2.7	1.7	< LOD	1.95	2.7	1.7
315	WALL	PLASTER	A	INTACT	GREEN	957 n	FIRST	STAIR	Positive	< LOD	9.6	< LOD	0.12	< LOD	9.6
316	WALL	PLASTER	B	INTACT	GREEN	957 n	FIRST	STAIR	Positive	< LOD	12.45	< LOD	0.06	< LOD	12.45
317	WALL	PLASTER	C	INTACT	GREEN	957 n	FIRST	STAIR	Positive	< LOD	9.6	< LOD	0.04	< LOD	9.6
318	WALL	PLASTER	D	INTACT	GREEN	957 n	FIRST	STAIR	Positive	< LOD	14.25	< LOD	0.05	< LOD	14.25
319	CEILING	PLASTER	D	INTACT	WHITE	957 n	FIRST	STAIR	Positive	< LOD	13.35	< LOD	0.35	< LOD	13.35
320	TRIM	PLASTER	C	INTACT	BROWN	957 n	FIRST	STAIR	Positive	4.6	2.9	< LOD	2.55	4.6	2.9

<LOD = Below the limit of detection

SIDE A= east, B=south, C= west, D=north

Client: Ramsey County
Location: 957 Mendota Street, St. Paul, MN.
Date of Ins 13-Apr-16
Project #: B1602097.01

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
321	BASEBOARD	PLASTER	C	INTACT	BROWN	957 n	FIRST	STAIR	Positive	< LOD	18.9	< LOD	3.9	< LOD	18.9
322	TREAD	WOOD	C	INTACT	BROWN	957 n	FIRST	STAIR	Negative	< LOD	0.1	< LOD	0.1	< LOD	1.52
323	TREAD	WOOD	C	INTACT	BLUE	957 n	FIRST	STAIR	Negative	< LOD	0.15	< LOD	0.15	< LOD	1.8
324	RISER	WOOD	C	INTACT	TAN	957 n	FIRST	STAIR	Positive	< LOD	19.5	< LOD	15.9	< LOD	19.5
325	post	WOOD	D	POOR	WHITE	957 n	FIRST	STAIR	Positive	< LOD	17.85	< LOD	4.2	< LOD	17.85
326	WALL	PLASTER	A	INTACT	WHITE	957 n	SECOND	BATHROOM	Negative	< LOD	0.07	< LOD	0.07	< LOD	2.02
327	WALL	PLASTER	A	CRACKED	black	957 n	SECOND	BATHROOM	Positive	< LOD	4.8	< LOD	4.65	< LOD	4.8
328	WALL	PLASTER	B	INTACT	WHITE	957 n	SECOND	BATHROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.32
329	WALL	PLASTER	C	INTACT	WHITE	957 n	SECOND	BATHROOM	Negative	< LOD	0.05	< LOD	0.05	< LOD	2.19
330	WALL	PLASTER	D	INTACT	WHITE	957 n	SECOND	BATHROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	2.22
331	CEILING	PLASTER	D	INTACT	WHITE	957 n	SECOND	BATHROOM	Negative	< LOD	0.24	< LOD	0.24	< LOD	2.19
332	DOOR	WOOD	A	INTACT	BROWN	957 n	SECOND	BATHROOM	Negative	< LOD	0.06	< LOD	0.06	< LOD	1.47
333	DOOR	WOOD	A	INTACT	BROWN	957 n	SECOND	BATHROOM	Negative	< LOD	0.08	< LOD	0.08	< LOD	1.8
334	FLOOR	WOOD	A	INTACT		957 n	SECOND	BATHROOM	Positive	1.6	0.6	< LOD	0.03	1.6	0.6
335	WINDOW	WOOD	B	INTACT	BROWN	957 n	SECOND	BATHROOM	Negative	< LOD	0.08	< LOD	0.08	< LOD	1.8
336	WINDOW	WOOD	B	INTACT	BROWN	957 n	SECOND	BATHROOM	Negative	< LOD	0.08	< LOD	0.08	< LOD	1.5
337	WINDOW	WOOD	B	INTACT	BROWN	957 n	SECOND	BATHROOM	Negative	< LOD	0.19	< LOD	0.19	< LOD	1.8
338	WINDOW	WOOD	B	INTACT	BROWN	957 n	SECOND	BATHROOM	Positive	< LOD	11.7	< LOD	10.35	< LOD	11.7
339	WINDOW	WOOD	B	INTACT	BROWN	957 n	SECOND	BATHROOM	Positive	< LOD	8.7	< LOD	1.75	< LOD	8.7
340	WALL	PLASTER	B	INTACT	GREEN	957 n	SECOND	HALL	Positive	5.6	3.2	< LOD	0.46	5.6	3.2
341	WALL	PLASTER	D	INTACT	GREEN	957 n	SECOND	HALL	Positive	< LOD	9.6	< LOD	1.69	< LOD	9.6
342	CEILING	PLASTER	D	INTACT	WHITE	957 n	SECOND	HALL	Positive	5.7	3.3	< LOD	0.79	5.7	3.3
343	TRIM	WOOD	D	INTACT	WHITE	957 n	SECOND	HALL	Positive	< LOD	17.85	< LOD	7.8	< LOD	17.85
344	BASEBOARD	WOOD	D	INTACT	WHITE	957 n	SECOND	HALL	Positive	< LOD	17.25	< LOD	7.5	< LOD	17.25
345	FLOOR	WOOD	D	INTACT		957 n	SECOND	HALL	Positive	< LOD	14.7	< LOD	8.1	< LOD	14.7
346	WALL	PLASTER	A	INTACT	WHITE	957 n	SECOND	BEDROOM	Negative	< LOD	0.08	< LOD	0.08	< LOD	1.91
347	WALL	PLASTER	B	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	2.1	0.8	< LOD	0.03	2.1	0.8

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SIDE A= east, B=south, C= west, D=north

Client: Ramsey County
Location: 957 Mendota Street, St. Paul, MN.
Date of Ins 13-Apr-16
Project #: B1602097.01

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
348	WALL	PLASTER	C	INTACT	WHITE	957 n	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.8
349	WALL	PLASTER	D	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	2.8	1.7	< LOD	0.33	2.8	1.7
350	WALL	PLASTER	D	INTACT	RED	957 n	SECOND	BEDROOM	Positive	< LOD	9.45	< LOD	17.4	< LOD	9.45
351	BASEBOARD	WOOD	D	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	16.35	< LOD	9.45	< LOD	16.35
352	TRIM	WOOD	D	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	14.1	< LOD	10.2	< LOD	14.1
353	DOOR	WOOD	A	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	12.6	< LOD	9.75	< LOD	12.6
354	DOOR	WOOD	A	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	9.75	< LOD	5.55	< LOD	9.75
355	WINDOW	WOOD	C	INTACT	WHITE	957 n	SECOND	BEDROOM	Negative	< LOD	0.1	< LOD	0.1	< LOD	2.12
356	WINDOW	WOOD	C	INTACT	WHITE	957 n	SECOND	BEDROOM	Negative	< LOD	0.74	< LOD	0.34	< LOD	0.74
357	WINDOW	WOOD	C	INTACT	WHITE	957 n	SECOND	BEDROOM	Negative	< LOD	0.06	< LOD	0.06	< LOD	1.94
358	WINDOW j	WOOD	C	INTACT	BROWN	957 n	SECOND	BEDROOM	Positive	6.6	4.2	6.6	4.2	< LOD	10.65
359	WINDOW t	WOOD	C	INTACT	BROWN	957 n	SECOND	BEDROOM	Positive	< LOD	8.85	< LOD	5.1	< LOD	8.85
360	WINDOW	WOOD	D	INTACT	stain	957 n	SECOND	BEDROOM	Negative	0.6	0.3	0.6	0.3	1.1	0.6
361	WINDOW	WOOD	D	INTACT	stain	957 n	SECOND	BEDROOM	Negative	< LOD	0.15	< LOD	0.15	< LOD	1.84
362	WINDOW	WOOD	D	INTACT	stain	957 n	SECOND	BEDROOM	Negative	< LOD	0.21	< LOD	0.21	< LOD	1.8
363	WINDOW j	WOOD	D	INTACT	BROWN	957 n	SECOND	BEDROOM	Positive	5.5	3.5	5.5	3.5	< LOD	10.8
364	WINDOW t	METAL	D	INTACT	BROWN	957 n	SECOND	BEDROOM	Positive	< LOD	8.85	< LOD	4.35	< LOD	8.85
365	BASEBOARD	WOOD	D	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	17.7	< LOD	10.35	< LOD	17.7
366	FLOOR	WOOD	D	INTACT	BLUE	957 n	SECOND	BEDROOM	Positive	1.6	0.6	0.7	0.2	1.6	0.6
367	WALL	PLASTER	A	INTACT	BLUE	957 n	SECOND	BEDROOM	Negative	< LOD	0.09	< LOD	0.09	< LOD	2.25
368	WALL	PLASTER	B	INTACT	BLUE	957 n	SECOND	BEDROOM	Positive	< LOD	10.65	< LOD	4.05	< LOD	10.65
369	WALL	PLASTER	C	INTACT	BLUE	957 n	SECOND	BEDROOM	Positive	2.5	0.9	< LOD	0.35	2.5	0.9
370	WALL	PLASTER	D	INTACT	BLUE	957 n	SECOND	BEDROOM	Positive	< LOD	15.15	< LOD	5.1	< LOD	15.15
371	WALL	PLASTER	A	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	16.35	< LOD	6.9	< LOD	16.35
372	WALL	PLASTER	B	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	2.9	1.8	< LOD	0.03	2.9	1.8
373	WALL	PLASTER	C	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	3.6	2.2	< LOD	0.03	3.6	2.2
374	WALL	PLASTER	D	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	17.4	< LOD	12.6	< LOD	17.4

<LOD = Below the limit of detection

SIDE A= east, B=south, C= west, D=north

Client: Ramsey County
Location: 957 Mendota Street, St. Paul, MN.
Date of Ins 13-Apr-16
Project #: B1602097.01

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
375	CEILING	PLASTER	D	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	17.25	< LOD	7.5	< LOD	17.25
376	FLOOR	WOOD	D	INTACT	GREEN	957 n	SECOND	BEDROOM	Negative	< LOD	0.45	< LOD	0.45	< LOD	2.25
377	FLOOR	WOOD	D	INTACT	GREEN	957 n	SECOND	BEDROOM	Positive	< LOD	17.4	< LOD	10.2	< LOD	17.4
378	BASEBOARD	WOOD	C	INTACT	GREEN	957 n	SECOND	BEDROOM	Positive	< LOD	18	< LOD	7.95	< LOD	18
379	WINDOW	WOOD	A	INTACT	GREEN	957 n	SECOND	BEDROOM	Positive	1.8	0.7	< LOD	0.6	1.8	0.7
380	WINDOW	WOOD	A	INTACT	GREEN	957 n	SECOND	BEDROOM	Negative	< LOD	0.03	< LOD	0.03	< LOD	1.95
381	WINDOW	WOOD	A	INTACT	GREEN	957 n	SECOND	BEDROOM	Negative	< LOD	0.46	< LOD	0.46	< LOD	1.95
382	WINDOW	WOOD	A	INTACT	GREEN	957 n	SECOND	BEDROOM	Negative	< LOD	0.08	< LOD	0.08	< LOD	1.76
383	WINDOW	WOOD	B	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	13.65	< LOD	9.45	< LOD	13.65
384	WINDOW	WOOD	B	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	9.45	< LOD	5.1	< LOD	9.45
385	WINDOW	WOOD	B	INTACT	WHITE	957 n	SECOND	BEDROOM	Positive	< LOD	16.5	< LOD	6	< LOD	16.5
386	WINDOW j	WOOD	B	INTACT	BROWN	957 n	SECOND	BEDROOM	Positive	< LOD	12.3	< LOD	2.25	< LOD	12.3
387	WINDOW t	METAL	B	INTACT	BROWN	957 n	SECOND	BEDROOM	Positive	< LOD	17.25	< LOD	2.4	< LOD	17.25
388	FLOOR	WOOD	B	INTACT	BROWN	957 n	SECOND	BEDROOM	Negative	< LOD	0.93	0.8	0.5	< LOD	0.93
389	WALL	CONCRETE	A	INTACT	WHITE	957 n	BASEMENT		Negative	< LOD	0.03	< LOD	0.03	< LOD	1.05
390	WALL	CONCRETE	B	INTACT	WHITE	957 n	BASEMENT		Null	< LOD	0.94	< LOD	0.94	< LOD	6.45
391	WALL	CONCRETE	B	INTACT	WHITE	957 n	BASEMENT		Positive	1.6	0.6	0.28	0.09	1.6	0.6
392	WALL	CONCRETE	C	INTACT	WHITE	957 n	BASEMENT		Positive	1.3	0.3	< LOD	0.03	1.3	0.3
393	WALL	CONCRETE	D	INTACT	WHITE	957 n	BASEMENT		Null	< LOD	0.03	< LOD	0.03	1.3	0.4
394	WALL	CONCRETE	D	INTACT	WHITE	957 n	BASEMENT		Negative	< LOD	0.1	< LOD	0.1	< LOD	1.05
395	WINDOW	WOOD	D	INTACT	GREEN	957 n	BASEMENT		Positive	2.7	1.4	2.7	1.4	< LOD	5.4
396	post	METAL	D	INTACT	WHITE	957 n	BASEMENT		Negative	< LOD	0.1	< LOD	0.1	< LOD	3.88
397	post	WOOD	D	INTACT	grey	957 n	BASEMENT		Positive	1.1	0.1	1.1	0.1	1.1	0.3
398	beam	WOOD	D	INTACT	grey	957 n	BASEMENT		Negative	< LOD	0.1	< LOD	0.1	< LOD	1.94
399	deck	WOOD	D	INTACT	grey	957 n	BASEMENT		Negative	< LOD	0.03	< LOD	0.03	< LOD	2.25
400	joist	WOOD	D	INTACT	grey	957 n	BASEMENT		Negative	< LOD	0.03	< LOD	0.03	< LOD	1.5
401	pipe	METAL	D	INTACT	WHITE	957 n	BASEMENT		Negative	0.8	0.2	0.8	0.2	< LOD	1.5

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Client: Ramsey County
Location: 957 Mendota Street, St. Paul, MN.
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Project #: B1602097.01

Reading No	Component	Substrate	Side	Condition	Color	Site	Floor	Room	Results	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
402	pipe	METAL	D	INTACT	WHITE	957 n	BASEMENT		Positive	1.4	0.3	1.4	0.3 < LOD	1.65	
403	WALL	METAL	C	INTACT	BEIGE	957 n	FIRST	OUTSIDE	Positive	2.2	0.8 < LOD	0.08	2.2	0.8	
404	WALL	METAL	D	INTACT	BEIGE	957 n	FIRST	OUTSIDE	Positive	1.7	0.7 < LOD	0.03	1.7	0.7	
405	WALL	METAL	A	INTACT	BEIGE	957 n	FIRST	OUTSIDE	Negative	0.07	0.04	0.07	0.04	0.9	0.2
406	WALL	METAL	A	INTACT	BEIGE	957 n	FIRST	OUTSIDE	Negative	< LOD	0.14 < LOD	0.14	1	0.6	
407	WALL	METAL	B	INTACT	BEIGE	957 n	FIRST	OUTSIDE	Positive	1.8	0.7 < LOD	0.08	1.8	0.7	
408	WINDOW	METAL	B	INTACT	BROWN	957 n	FIRST	OUTSIDE	Positive	< LOD	9.75 < LOD	5.25 < LOD	9.75		
409	WINDOW	METAL	B	INTACT	BROWN	957 n	FIRST	OUTSIDE	Positive	4.8	3 < LOD	1.8	4.8	3	
410	WINDOW	WOOD	B	POOR	BROWN	957 n	FIRST	OUTSIDE	Positive	5.9	3.6	5.9	3.6 < LOD	9.75	
411	WINDOW j	WOOD	B	POOR	BROWN	957 n	FIRST	OUTSIDE	Positive	< LOD	12 < LOD	1.65 < LOD	12		
412	DOOR	WOOD	A	POOR	WHITE	957 n	FIRST	OUTSIDE	Positive	3	1.7	3	1.7 < LOD	6.75	
413	deck	WOOD	A	POOR	WHITE	957 n	FIRST	OUTSIDE	Negative	< LOD	0.04 < LOD	0.04 < LOD	1.61		
414	deck	WOOD	A	POOR	WHITE	957 n	FIRST	OUTSIDE	Negative	0.8	0.2	0.8	0.2 < LOD	0.75	
415	deck	WOOD	C	POOR	BROWN	957 n	FIRST	OUTSIDE	Negative	< LOD	0.03 < LOD	0.03 < LOD	1.89		
416	deck post	METAL	C	POOR	BROWN	957 n	FIRST	OUTSIDE	Positive	< LOD	19.8 < LOD	3.3 < LOD	19.8		
417	deck beam	METAL	C	POOR	BROWN	957 n	FIRST	OUTSIDE	Positive	< LOD	15.9 < LOD	3.45 < LOD	15.9		
418	deck soffit	METAL	C	POOR	BROWN	957 n	FIRST	OUTSIDE	Positive	4.4	2.7 < LOD	1.8	4.4	2.7	
419	cal	METAL	C	POOR	BROWN	957 n	FIRST	OUTSIDE	Positive	1.2	0.2	1.2	0.2 < LOD	0.9	
420	cal	METAL	C	POOR	BROWN	957 n	FIRST	OUTSIDE	Positive	1.1	0.1	1.1	0.1 < LOD	0.6	
421	cal	METAL	C	POOR	BROWN	957 n	FIRST	OUTSIDE	Positive	1.1	0.1	1.1	0.1 < LOD	0.4	

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Appendix D

Bulk Asbestos Analysis Reports



Mr. Steve Luth
Braun Intertec-Bloomington
11001 Hampshire Ave. South
Bloomington, MN 55438

April 20, 2016

Work Order #: 1600955

RE: B1602097.01-957 Mendota Street
B1602097.01

Page 1 of 9

Dear Steve Luth:

Bulk Asbestos Analysis Report

The microscopy department of Pace Analytical Services, Inc. received your analytical request on April 15, 2016. The sample(s) were analyzed in the Pace Industrial Hygiene laboratory unless otherwise noted. The objective of this analysis was to determine the presence of asbestos using polarized light microscopy (PLM) and to determine the percent of asbestos and non-asbestos fibrous components by calibrated visual area estimation. Analytical results are summarized on the following laboratory report.

Discussion

None-detected floor tile results obtained by PLM analysis may contain thin asbestos fibers below the limits of resolution of the polarized light microscope. The EPA Method EPA/600/R-93/116 recommends the use of transmission electron microscopy to confirm the absence of asbestos.

Methodology

Bulk asbestos analysis is conducted in accordance with the Environmental Protection Agency's (EPA) methods 40 CFR, Part 763, Ch. 1, Subpart F, Appendix A (7-1-87 Edition) and EPA/600/R-93/116. All analyses are in compliance with the quality control procedures specified by the methods. All samples are examined for homogeneity. If a sample contains more than one layer, each layer is analyzed individually. Total fibrous content is calculated for joint compound/wallboard systems by combining layer results according to their percentages of the total sample. All routine quality assurance procedures were followed, unless otherwise noted.

Remarks

This test report relates only to the items submitted for analysis.

Samples are retained at our laboratory for a period of 30 days and will be disposed of unless otherwise instructed by the client.

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We appreciate your decision to use Pace Analytical Services, Inc. for this project. We are committed to being your vendor of choice to meet your analytical needs.

If you have any questions please contact me at 612-607-6457.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Pivec".

Michelle Pivec For Steven D. Felton
Project Manager

A handwritten signature in black ink, appearing to read "Steven D. Felton".

Steven D. Felton
Microscopist

Client ID: 1A		Sample No: 1600955-01				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White granular texture	1	100	1,3,11	Cellulose 10	None Detected	04/18/16
Client ID: 1B		Sample No: 1600955-02				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White granular texture	1	100	1,3,11	None Detected	None Detected	04/18/16
Client ID: 1C		Sample No: 1600955-03				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Plaster	2	100	-	-	-	04/18/16
White micaceous texture	(A)	10	1,2,3,11	None Detected	None Detected	
Gray granular cementitious	(B)	90	1,3	Cellulose <1 Hair <1	None Detected	
Client ID: 1D		Sample No: 1600955-04				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White chalky with paint	1	100	1,3,11	None Detected	None Detected	04/18/16
Client ID: 1E		Sample No: 1600955-05				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Plaster	2	100	-	-	-	04/18/16
White granular texture	(A)	35	1,3,6	None Detected	None Detected	
Gray granular cementitious	(B)	65	1,3	Cellulose <1 Hair <1	None Detected	
Client ID: 2A		Sample No: 1600955-06				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White micaceous texture	1	100	1,2,3,11	None Detected	None Detected	04/18/16

Client ID: 2B		Sample No: 1600955-07				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White micaceous texture	1	100	1,2,3,11	None Detected	None Detected	04/18/16

Client ID: 2C		Sample No: 1600955-08				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Plaster	2	100	-	-	-	04/18/16
White chalky	(A)	10	1,3,11	None Detected	None Detected	
Gray granular cementitious	(B)	90	1,3	Cellulose <1 Hair <1	None Detected	

Client ID: 2D		Sample No: 1600955-09				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White micaceous texture	1	100	1,2,3,11	None Detected	None Detected	04/18/16

Client ID: 2E		Sample No: 1600955-10				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Textures	2	100	-	-	-	04/18/16
White micaceous texture	(A)	90	1,2,3,11	None Detected	None Detected	
Gray powdery compound	(B)	10	1,2,3,11	None Detected	Chrysotile <1	

Client ID: 3		Sample No: 1600955-11				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Brown adhesive	1	100	1,7	None Detected	None Detected	04/18/16

Client ID: 4		Sample No: 1600955-12				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White fibrous powdery	1	100	1,3	Cellulose 10	None Detected	04/18/16

Client ID: 5		Sample No: 1600955-13				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Brown rubbery	1	100	1,3,10,11	None Detected	None Detected	04/18/16

Client ID: 6		Sample No: 1600955-14				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Vinyl with adhesive	2	100	-	-	-	04/18/16
Gray vinyl	(A)	98	1,3,9	None Detected	Chrysotile 5	
Yellow adhesive	(B)	2	1,7	Cellulose 3	None Detected	

Client ID: 7A		Sample No: 1600955-15				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White fibrous powdery	1	100	1,3,11	Cellulose 10	None Detected	04/18/16

Client ID: 7B		Sample No: 1600955-16				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White chalky with paint	1	100	1,3,11	None Detected	None Detected	04/18/16

Client ID: 7C		Sample No: 1600955-17				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White chalky with paint	1	100	1,3,11	Cellulose <1	None Detected	04/18/16

Client ID: 8		Sample No: 1600955-18				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Tan fibrous with paint	1	100	1,3,11	None Detected	None Detected	04/18/16

Client ID: 9		Sample No: 1600955-19				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Linoleum	2	100	-	-	-	04/18/16
Tan/brown vinyl	(A)	10	1,3,9	None Detected	None Detected	
Black tar paper	(B)	90	3,8	Cellulose 60 Synthetic Fibers 5	None Detected	

Client ID: 10A		Sample No: 1600955-20				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Gray fibrous with paint	1	100	3,4,11	Cellulose 10	Chrysotile 50	04/18/16

Client ID: 10B		Sample No: 1600955-21				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date

NO ANALYSIS PERFORMED ON THIS SAMPLE

Client ID: 10C		Sample No: 1600955-22				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date

NO ANALYSIS PERFORMED ON THIS SAMPLE

Client ID: 11A		Sample No: 1600955-23				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White chalky with paint	1	100	1,3,11	Cellulose 2	None Detected	04/18/16

Client ID: 11B		Sample No: 1600955-24				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White chalky with paint	1	100	1,3,11	None Detected	None Detected	04/18/16

Client ID: 11C		Sample No: 1600955-25				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
White/gray granular	1	100	1,3,11	Cellulose 5 Hair <1	None Detected	04/18/16

Client ID: 12		Sample No: 1600955-26				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Linoleum	3	100	-	-	-	04/18/16
Yellow vinyl	(A)	50	1,3,9	Cellulose 50	None Detected	
Black tar paper	(B)	48	3,8	Cellulose 60 Synthetic Fibers 5	None Detected	
Brown adhesive	(C)	2	1,7	Cellulose <1	None Detected	

Client ID: 13		Sample No: 1600955-27				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Flooring	5	100	-	-	-	04/18/16
Tan vinyl	(A)	55	1,3,9	Cellulose 10	None Detected	
Black tar paper	(B)	10	8	Cellulose 60 Synthetic Fibers 5	None Detected	
Brown adhesive	(C)	<1	1,7	Cellulose <1	None Detected	
Gray floor tile	(D)	34	1,3,9	None Detected	None Detected	
Colorless adhesive	(E)	<1	1,7	Cellulose 3	None Detected	

Client ID: 14		Sample No: 1600955-28				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Baseboard with adhesive	2	100	-	-	-	04/18/16
Black vinyl	(A)	>99	4,9	None Detected	None Detected	
Brown adhesive	(B)	<1	1,7	None Detected	None Detected	

Client ID: 15		Sample No: 1600955-29				
Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Black fibrous tarry with stones	1	100	1,8	Glass Fibers 10	None Detected	04/18/16

Client ID:	16	Sample No:	1600955-30
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Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Black fibrous tarry	1	100	1,8	None Detected	Chrysotile 10	04/18/16

Client ID:	17	Sample No:	1600955-31
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Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Gray fibrous	1	100	1,3,4	Cellulose 20	Chrysotile 50	04/18/16

Client ID:	18	Sample No:	1600955-32
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Macroscopic Description	No. of Layers and Layer Designator	Percent of Total Sample	Non-Fibrous Components*	Other Fibrous Non-Asbestos Content Total or Layer %	Asbestos Content Total or Layer %	Analytical Date
Caulk	2	100	-	-	-	04/18/16
Gray granular	(A)	75	1,3	None Detected	None Detected	
Brown granular	(B)	25	1,3	None Detected	None Detected	

Footnotes and Definitions

<	Less Than	* Key to Non-Fibrous Components			
>	Greater Than				
		1 = Rock/Mineral fragments	5 = Diatoms	9 = Vinyl	13 = Spores/Pollen
		2 = Mica/Vermiculite	6 = Perlite	10 = Foam/Rubber	14 = Foil
		3 = Binders	7 = Adhesive/Mastic	11 = Paint	
		4 = Opaques	8 = Tar	12 = Other	

Date Reported: 4/20/2016
Page 8 of 9

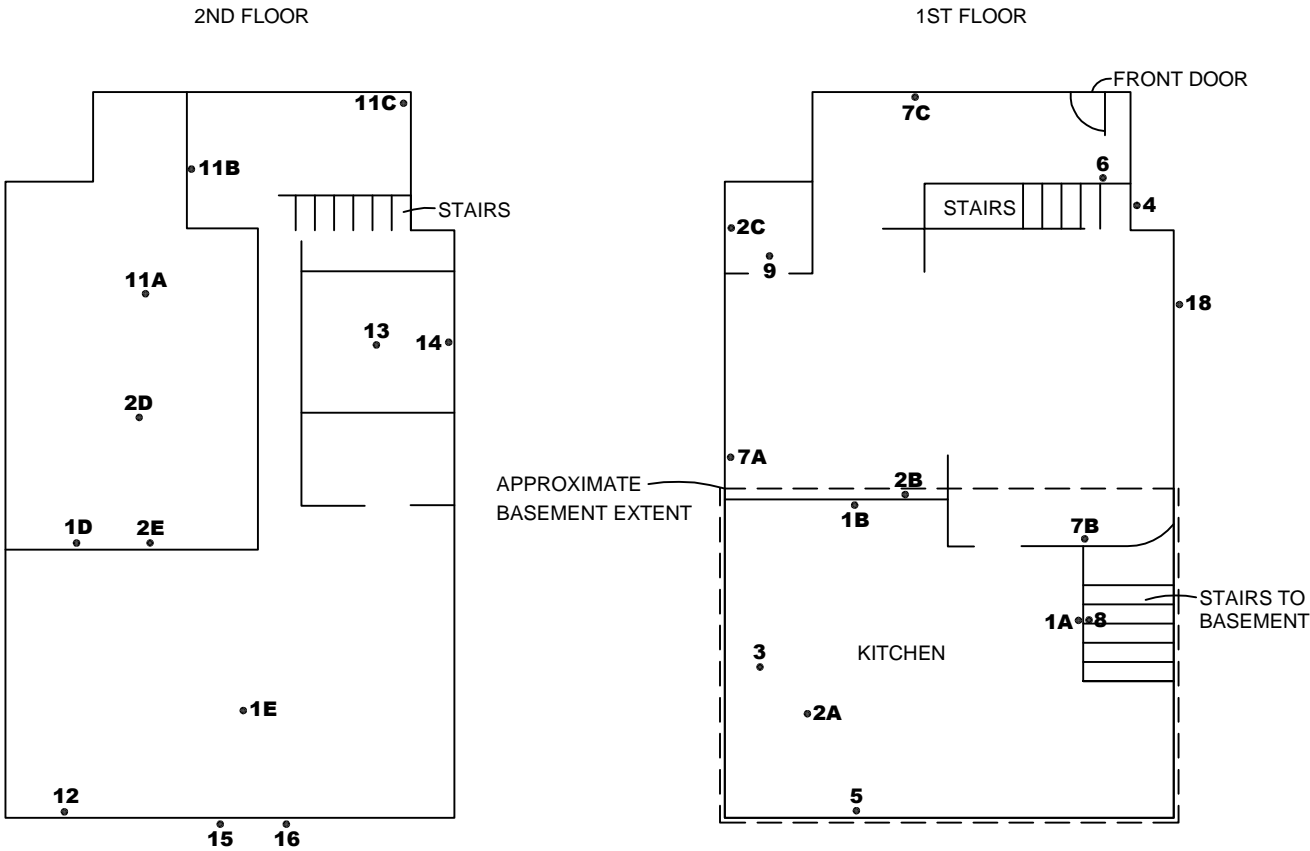


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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Appendix E

Sample Location Sketch



• **SAMPLE LOCATION**

NOTE: DUCT TAPE NEAR CHIMNEY COLLECTED IN BASEMENT



Sheet of	Project No: B1602097.01
	Drawing No: B1602097-01
Fig:	Scale: NONE
	Drawn By: REJ
	Date Drawn: 4/19/16
	Checked By: JPM
	Last Modified: 5/5/16

SAMPLE LOCATION SKETCH
PRE-DEMO HAZMAT
TWO LEVEL SINGLE FAMILY DWELLING
957 MENDOTA STREET
ST. PAUL, MINNESOTA

BRAUN
INTERTEC
The Science You Build On.
11001 Hampshire Avenue S
Minneapolis, MN 55438
PH. (952) 995-2000
FAX (952) 995-2020

Appendix F

Asbestos Inspector Certificate

Expiration Date: August 5, 2016

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.
in
White Bear Lake, MN on August 5, 2015
Examination Date: August 5, 2015

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

Paul W. Jewell
Training Instructor





ASBESTOS
INSPECTOR

Certified by
State of Minnesota
Department of Health

Expires: 01/28/2017

Stephen A Luth
6598 154th St W
Apple Valley, MN 55124

Stephen A. Luth
Director, Env. Health Div.

No. A110702

Issued: 02/12/2016