

Midwest  
Environmental  
Consulting, L.L.C.



January 28, 2012

Rennie Smith  
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404A St. Croix Trail North  
Lakeland MN 55043

RE: HUD Lead-Based Paint Inspection and Risk Assessment at the Duplex  
Residential Property, 767 - 4<sup>th</sup> Street East, St. Paul, Minnesota (All Phase  
Phone: 651-436-2930)

Dear Rennie Smith:

At your request, Midwest Environmental Consulting, L.L.C. (MEC) performed a HUD lead-based paint inspection and risk assessment of the duplex residential located at 767 - 4<sup>th</sup> Street East, St. Paul, Minnesota on January 24, 2012.

G. Bradley Nelson, Project Manager and licensed lead risk assessor (MN LR #938) performed all field work associated with this project. MEC credentials can be found in Appendix A.

The purpose of this project was to determine whether lead-based paint or other lead hazards are present on the interior or exterior surfaces of the residential property. This report contains the results of the HUD lead-based paint inspection and risk assessment.

The inspection was conducted following the Housing and Urban Development (HUD) "*Guidelines for the Evaluation and Control of Lead-Based Paint in Housing*," using the October 1997 revised Chapter 7 protocols. The sampling criteria used are those outlined in the HUD Standards 24 CFR Part 35 et al, "*Requirements for Notification Evaluation and Education of Lead-Based Paint Hazards in Federally Owned Residential Property and Housing Receiving Federal Assistance*." Also included, is an evaluation for lead dust hazards and bare soil hazards as part of the risk assessment.

According to HUD protocol, if the first 5 of a building component are identified as positive for lead-based paint, the remaining like components are assumed to be lead-based paint containing.

#### **SITE DESCRIPTION**

The duplex property located at 767 - 4<sup>th</sup> Street East, St. Paul, Minnesota is a two story wood framed structure on a concrete & stone foundation/basement constructed in

approximately the late 1800's. The interior walls and ceilings are a combination of plaster, drywall or wood paneling. Most of the windows are of original vintage with some windows on the south side main level having inserts. The property has had extensive vandalism with broken glass throughout the main level, holes in walls and general trash. The second floor unit has a broken window which is allowing for moisture intrusion which is damaging the floor and the unit below. There have been renovations over the years including converting the property into a duplex. The basement level has moisture problems with mold present on walls and other substrates. The exterior of the property is vinyl siding with low maintenance cladding on most soffits, fascia and trim covering original vintage painted substrates. There is no garage or shed on the property.

Bare soil was not observed due to snow cover. The property is currently vacant.

## RESULTS OF PAINT INSPECTION

MEC used a paint inspection sampling strategy as described in the HUD *Guidelines* (1995 and revised Chapter 7 in October 1997). The results of portable X-Ray Fluorescence (XRF) spectrum analysis of representative building components in each functional area or room are shown in Appendix B. Results are organized and shown in actual sequence of analysis. All tests were made using a Niton® XLP 303 X-Ray Fluorescence Spectrum Analyzers (Serial # 13754 and Serial # 8790).

XRF analytical results in Appendix B, in the column labeled "Results" represent lead concentrations per square centimeter of painted surface ( $\text{mg}/\text{cm}^2$ ).

HUD regulations 24 CFR Part 35 et al, the HUD *Guidelines* and the Minnesota Department of Health (MDH) define the paint action level as lead concentrations at or above the level of  $1.0 \text{ mg}/\text{cm}^2$  when measured with a portable XRF instrument (0.5% by weight when measured by laboratory methods).

The lead-based paint risk assessment protocol described in the HUD *Guidelines* and the EPA regulations rely on evaluation of surface coatings meeting the definition of poor, planned renovations, presence of dust and soil above current EPA and Minnesota Department of Health (MDH) Standards.

Tests are performed on each test combination. A test combination consists of unique combinations of substrate, color, building component, and location.

XRF results are classified as positive or negative. A positive classification indicates that lead is present on the testing combination at or above the HUD standards. It's important to note that the limited inspection of surfaces tested only applies to those surfaces areas tested and does not meet the requirements of a full HUD lead-based paint inspection and those surface areas not tested would be assumed to contain lead-based

paint.

Appendix B includes a record of XRF calibration checks. Those checks were performed on thin films supplied by the XRF manufacturer; they contain known concentrations of lead. The graphs in that appendix show the variation of quality control with time. The assays in the table of raw data (Appendix B) that are labeled "Calibrate" indicate that they are for quality control. Additional quality control data and information are available to you upon request.

- Side A: South, faces 4<sup>th</sup> Street East
- Side B: West, adjoins vacant lot
- Side C: North, faces alley & residential property
- Side D: East, adjoins residential property

Specific building components determined to have a lead concentration above the action level of (1.0 mg/cm<sup>2</sup>) are listed below:

| LOCATION                      | COMPONENT  |
|-------------------------------|--|
| Exterior                      | Painted wood columns   |
| Exterior                      | Metal window trim (depth index indicates lead beneath metal surfaces:                |
| Exterior                      | Painted wood window components   |
| Exterior                      | Metal fascia, soffits & trim (depth index indicates lead beneath the metal surfaces) |
| Exterior                      | Vinyl siding (depth index indicates lead beneath the vinyl surfaces)                 |
| Exterior                      | Painted wood railing trim (Side D)   |
| Stairway to basement          | Painted drywall, wood & plaster walls  |
| Stairway to basement          | Painted wood door stop   |
| Stairway to basement          | Painted wood door header   |
| Stairway to basement          | Painted wood stair skirt   |
| 1 <sup>st</sup> Floor Hallway | Painted wood transom components  |
| 1 <sup>st</sup> Floor Hallway | Painted wood doors & door components   |
| 1 <sup>st</sup> Floor Hallway | Painted wood baseboard   |

|                                      |  |
|--------------------------------------|--|
| 1 <sup>st</sup> Floor - Bedroom 1    | Painted wood baseboards                              |
| 1 <sup>st</sup> Floor - Bedroom 1    | Painted wood door & door's components                |
| 1 <sup>st</sup> Floor - Living Room  | Painted wood baseboards                              |
| 1 <sup>st</sup> Floor - Living Room  | Painted wood window components                       |
| 1 <sup>st</sup> Floor - Living Room  | Painted wood door components                         |
| 1 <sup>st</sup> Floor - Dining Room  | Painted wood baseboards                              |
| 1 <sup>st</sup> Floor - Dining Room  | Painted wood wainscoting & chair rails               |
| 1 <sup>st</sup> Floor - Dining Room  | Painted wood window components                       |
| 1 <sup>st</sup> Floor - Dining Room  | Painted wood door components                         |
| 1 <sup>st</sup> Floor - Kitchen      | Painted wood wainscoting & chair rails               |
| 1 <sup>st</sup> Floor - Kitchen      | Painted wood window components                       |
| 1 <sup>st</sup> Floor - Kitchen      | Painted wood door components (including closet door) |
| 1 <sup>st</sup> Floor - Kitchen      | Painted wood baseboards                              |
| 1 <sup>st</sup> Floor - Kitchen      | Painted plaster wall                                 |
| 1 <sup>st</sup> Floor - Kitchen      | Painted wood shelf support                           |
| 1 <sup>st</sup> Floor - Kitchen      | Painted wood cabinet components                      |
| 1 <sup>st</sup> Floor - Utility Room | Painted wood siding (wall)                           |
| 1 <sup>st</sup> Floor - Utility Room | Painted wood door components & threshold             |
| 1 <sup>st</sup> Floor - Utility Room | Painted wood stair treads & riser                    |
| 1 <sup>st</sup> Floor - Utility Room | Painted wood beams & columns                         |
| 1 <sup>st</sup> Floor - Utility Room | Painted wood ceiling                                 |
| 1 <sup>st</sup> Floor - Utility Room | Painted wood floor                                   |
| 1 <sup>st</sup> Floor - Bedroom 2    | Painted wood window components                       |
| 1 <sup>st</sup> Floor - Bathroom 1   | Painted wood window components                       |
| 1 <sup>st</sup> Floor - Bedroom 3    | Painted wood door components (including closet)      |
| 1 <sup>st</sup> Floor - Bedroom 3    | Painted wood closet shelf                            |

|                                     |  |
|-------------------------------------|--|
| 1 <sup>st</sup> Floor - Bedroom 3   | Painted wood baseboards  |
| 1 <sup>st</sup> Floor - Bedroom 3   | Painted wood window components                                   |
| Stairway to 2 <sup>nd</sup> Floor   | Painted wood transom components                                  |
| Stairway to 2 <sup>nd</sup> Floor   | Painted wood door & door's components                            |
| Stairway to 2 <sup>nd</sup> Floor   | Painted wood toehead   |
| Stairway to 2 <sup>nd</sup> Floor   | Painted wood stair skirt   |
| Stairway to 2 <sup>nd</sup> Floor   | Painted wood window components                                   |
| Stairway to 2 <sup>nd</sup> Floor   | Painted wood stair treads & stair riser                          |
| 2 <sup>nd</sup> Floor - Bedroom 1   | Painted wood baseboards  |
| 2 <sup>nd</sup> Floor - Bedroom 1   | Painted wood window components                                   |
| 2 <sup>nd</sup> Floor - Living Room | Painted wood window components                                   |
| 2 <sup>nd</sup> Floor - Living Room | Painted wood door components                                     |
| 2 <sup>nd</sup> Floor - Kitchen     | Painted plaster & wood walls                                     |
| 2 <sup>nd</sup> Floor - Kitchen     | Painted wood stair riser   |
| 2 <sup>nd</sup> Floor - Kitchen     | Painted wood door's components (all doors including closet door) |
| 2 <sup>nd</sup> Floor - Kitchen     | Painted wood window components                                   |
| 2 <sup>nd</sup> Floor - Kitchen     | Painted wood baseboards  |
| 2 <sup>nd</sup> Floor - Bathroom 2  | Painted wood door components                                     |
| 2 <sup>nd</sup> Floor - Bathroom 2  | Paint wood window components                                     |
| 2 <sup>nd</sup> Floor - Bathroom 2  | Bathtub  |
| 2 <sup>nd</sup> Floor - Bedroom 2   | Painted wood doors & door components (including closet door)     |
| 2 <sup>nd</sup> Floor - Bedroom 2   | Painted wood baseboards  |
| 2 <sup>nd</sup> Floor - Bedroom 2   | Painted wood window components                                   |

Also included in Appendix B of this report is a rating of the condition of paint on components (column titled "Condition"). Comments on the condition include:

**Intact:** good condition; **Fair:** less than 2 square feet of damage to large interior surface, i.e., wall, less than 10 square feet of damage to large exterior surface, i.e., outside walls, or less than 10% damage to small surface areas, i.e., baseboards, trim, etc.; **Poor:** more than 2 square feet of damage on large interior surfaces, more than 10 square feet of damage to large exterior surface areas, or more than 10% damage to small surface areas.

## RESULTS OF LEAD RISK ASSESSMENT

The risk assessment portion of this investigation involved two major phases: collecting information about the property through use of a visual inspection of the dwelling; and reviewing paint test data, and visual assessment notes in order to determine the type, location, and number of samples needed to further identify lead hazards at the property. These samples may consist of paint, dust, soil, and water.

- The date of construction of the residence is approximately the late 1800's.
- The property is a duplex residential structure.
- Interior walls are a combination of plaster, drywall & wood paneling.
- Most windows are original vintage wood - some with newer inserts.
- The exterior siding is vinyl. Exterior soffits & fascia are metal clad over original painted substrates
- There is evidence of vandalism to the property.
- Bare soil was not observed due to snow cover.
- The property is currently vacant.

### Visual Inspection

MEC conducted an inspection of painted and varnished surfaces on the interior and exterior of the residence. Emphasis was placed on chewable surfaces within 5 feet of the ground or floor.

The results of the visual inspection indicate that the interior and the exterior of the structure is mainly in poor condition with some components in fair or intact condition.

Please note, however, the condition report within the XRF table for painted or varnished surfaces found to be fair or poor, that were below the 1.0 mg/cm<sup>2</sup> action level.

### Environmental Sampling Plan

Based on the location of lead-based paint, deteriorated lead-based paint, and information gathered during the visual inspection, MEC formulated the following environmental sampling plan to identify other lead hazards on this property. Water

samples were not collected as they were not part of the scope of work for this project. Bare soil was not observed due to snow cover and no bare soil sample was collected.

Samples were collected and delivered to EMSL Laboratory (ELLAP 163162), Minneapolis, Minnesota where they were prepared and analyzed using current appropriate protocols for lead. Laboratory results for environmental samples may be found in Appendix C.

Analytical results are reported below for each sample and compared to standard action levels that have been identified for this project.

| SAMPLE #<br>DATE         | LOCATION   | RESULT                           | PROJECT<br>ACTION<br>LEVEL    |
|--------------------------|--|----------------------------------|-------------------------------|
| 502/0112K-W1<br>1/18/12  | Front entry, Side A, floor<br>adj, door                              | 26 $\mu\text{g}/\text{ft}^2$     | 40 $\mu\text{g}/\text{ft}^2$  |
| 502/0111K-W2<br>1/18/12  | Bedroom 2, Side C, floor<br>under window                             | 34 $\mu\text{g}/\text{ft}^2$     | 40 $\mu\text{g}/\text{ft}^2$  |
| 502/0112K-W3<br>1/18/12  | Bedroom 2, Side C, window<br>stool                                   | 3,400 $\mu\text{g}/\text{ft}^2$  | 250 $\mu\text{g}/\text{ft}^2$ |
| 502/0112K-W4<br>1/18/12  | Bedroom 3, Side D, floor<br>under window                             | <10 $\mu\text{g}/\text{ft}^2$    | 40 $\mu\text{g}/\text{ft}^2$  |
| 502/0112K-W5<br>1/18/12  | Bedroom 3, Side D, window<br>trough                                  | 37,000 $\mu\text{g}/\text{ft}^2$ | 400 $\mu\text{g}/\text{ft}^2$ |
| 502/0112K-W6<br>1/18/12  | Kitchen, Side C, floor adj.<br>entry door                            | 47 $\mu\text{g}/\text{ft}^2$     | 40 $\mu\text{g}/\text{ft}^2$  |
| 502/0112K-W7<br>1/18/12  | Living Room, Side B, floor<br>under left window                      | 30 $\mu\text{g}/\text{ft}^2$     | 40 $\mu\text{g}/\text{ft}^2$  |
| 502/0112K-W8<br>1/18/12  | Living Room, Side B,<br>window stool                                 | 7,200 $\mu\text{g}/\text{ft}^2$  | 250 $\mu\text{g}/\text{ft}^2$ |
| 502/0112K-W9<br>1/18/12  | 2 <sup>nd</sup> Floor Bedroom 1, Side<br>A, floor under right window | <10 $\mu\text{g}/\text{ft}^2$    | 40 $\mu\text{g}/\text{ft}^2$  |
| 502/0112K-W10<br>1/18/12 | Bedroom 1, Side A, right<br>window stool                             | 1,300 $\mu\text{g}/\text{ft}^2$  | 250 $\mu\text{g}/\text{ft}^2$ |
| 502/0112K-W11<br>1/18/12 | Living Room, Side B, floor<br>under window                           | <10 $\mu\text{g}/\text{ft}^2$    | 40 $\mu\text{g}/\text{ft}^2$  |

|                          |   |                           |                        |
|--------------------------|---|---------------------------|------------------------|
| 502/0112K-W12<br>1/18/12 | Living Room, Side B,<br>window stool                              | 1,000 µg/ft <sup>2</sup>  | 250 µg/ft <sup>2</sup> |
| 502/0112K-W13<br>1/18/12 | Kitchen, Side C, floor under<br>window                            | 38 µg/ft <sup>2</sup>     | 40 µg/ft <sup>2</sup>  |
| 502/0112K-W14<br>1/18/12 | Bedroom 2, Side D, floor<br>under window                          | 150 µg/ft <sup>2</sup>    | 40 µg/ft <sup>2</sup>  |
| 502/0112K-W15<br>1/18/12 | 2 <sup>nd</sup> Floor Bedroom 3, Side<br>D, window trough         | 17,000 µg/ft <sup>2</sup> | 400 µg/ft <sup>2</sup> |
| 502/0112K-W16<br>1/18/12 | 1 <sup>st</sup> Floor, Stair 1, Entry,<br>Side A, floor adj entry | 430 µg/ft <sup>2</sup>    | 40 µg/ft <sup>2</sup>  |
| 502/0112K-W17<br>1/18/12 | Blind Field Blank   | <10 µg/ft <sup>2</sup>    | -----                  |

\* Unit Abbreviations: µg/ft<sup>2</sup> - micrograms per square foot

Dust wipe were collected from the residence, however, water and sodium rhodizonate swabs were not collected as part of this project. Bare soil was observed on the day of the site evaluation. Bare soil was not observed due to snow cover and no bare soil samples were collected .

## RECOMMENDATIONS

Lead-based paint or lead hazards were found during the inspection and risk assessment of the property including painted wood interior & exterior window components; painted wood door components; painted plaster ceilings; painted wood baseboards, wainscoting & chair rails; stair risers & treads; under vinyl exterior siding; under metal exterior window, fascia & soffit cladding; & bathtub.

According to HUD protocol, if the first 5 of a building component are identified as positive for lead-based paint, the remaining like components are assumed to be lead-based paint containing.

At the request of the City of St. Paul, only abatement options are provided for lead hazards identified during this evaluation. Abatement options can include removal of building components to the substrate and replacement with new lead free products; enclosure of building components under dust tight barriers; encapsulation; or removal of coatings to the substrates and re-coating with lead free coatings.

**Exterior:**

Painted wood columns: In poor condition.

- Option 1: Enclose under dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.

Metal clad window trim (depth index indicates lead beneath metal surfaces): In poor condition.

- Option 1: Remove and replace damaged metal cladding making sure that seams and seals are maintained in a sealed condition using elastomeric caulk and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove window trim using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Remove cladding & coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Metal clad soffit & fascia (depth index indicates lead beneath metal surfaces): In poor condition.

- Option 1: Remove and replace damaged metal cladding making sure that seams and seals are maintained in a sealed condition using elastomeric caulk and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove fascia & soffits using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Remove cladding & coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In poor condition.

- Option 1: Remove window components to raw openings using Lead Safe Work Practices and replace with new lead free window components.
- Option 2: Enclose under a dust tight barrier such as aluminum cladding and include into an operation & maintenance plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Vinyl siding (depth index indicates lead beneath the vinyl surfaces): In fair condition.

- Option 1: Remove vinyl siding and original siding underneath using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove siding and coating on original siding to bare substrate using Lead Safe Work Practices and re-coat with lead free coating.
- Option 3: Remove & replace damaged areas of vinyl siding using Lead Safe Work Practices making sure that seams and seals are maintained in a sealed condition using elastomeric caulk and include into an Operation & Maintenance

Plan with ongoing monitoring.

Painted wood railing trim: In poor condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

### **Stairway to Basement:**

Painted drywall wall: In poor condition.

- Option 1: Remove wall system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door stop: In poor condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door header: In poor condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood and plaster walls: In poor condition.

- Option 1: Remove wall system to the framing material using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier and include into an operation & maintenance plan with ongoing monitoring.
- Option 3: Encapsulate with an approve lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood stair skirt: In poor condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.

- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

### **1<sup>st</sup> Floor Hallway:**

Painted wood transom components: In intact condition..

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door's components: In intact condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood baseboards: In intact condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

### **1<sup>st</sup> Floor - Bedroom 1:**

Painted wood baseboards: In poor condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door's components: In poor condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices

and re-coat with lead free coatings.

### **1<sup>st</sup> Floor Living Room:**

Painted wood baseboards: In intact condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In intact condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door components: In intact condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

### **1<sup>st</sup> Floor Dining Room:**

Painted wood baseboards: In poor condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood wainscoting & chair rails: In poor condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In poor condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door components: In poor condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

### **1<sup>st</sup> Floor Kitchen:**

Painted wood wainscoting & chair rails: In poor condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In poor condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door components (including closet door): In poor condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Vinyl baseboard: In poor condition.

- Option 1: Remove baseboard using Lead Safe Work Practices and replace with new lead free products.

Painted plaster walls: In poor condition.

- Option 1: Remove wall system to the framing material using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier and include into an operation & maintenance plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.

- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood shelf support: In poor condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood cabinet components: In poor condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

### **1<sup>st</sup> Floor Utility Room:**

Painted wood siding (walls): In fair condition.

- Option 1: Remove wall system to the framing material using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier and include into an operation & maintenance plan with ongoing monitoring.
- Option 3: Encapsulate with an approve lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door components & threshold: In fair condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood stair riser & treads: In intact condition.

- Option 1: Remove stair system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood beams and columns: In fair condition.

- Option 1: Enclose under dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Encapsulate with an approve lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coating.

Painted wood ceiling: In fair condition.

- Option 1: Remove ceiling system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approve lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrate using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.

Painted wood floor: In poor condition.

- Option 1: Remove floor system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coating.

**1<sup>st</sup> Floor - Bedroom 2:**

Painted wood window components: In poor condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

**1<sup>st</sup> Floor - Bathroom:**

Painted wood window components: In poor condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

**1<sup>st</sup> Floor - Bedroom 3:**

Painted wood door components (including closet door): In intact condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood closet shelf: In intact condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood baseboards: In fair condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In fair condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

**Stairway to 2<sup>nd</sup> Floor:**

Painted wood transom components: In fair condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door's components : In fair condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood toeboard: In fair condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood stair skirt: In fair condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coating to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In fair condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood riser & treads: In fair condition.

- Option 1: Remove stair system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

**2<sup>nd</sup> Floor - Bedroom 1:**Painted wood baseboards: In fair condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In fair condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

**2<sup>nd</sup> Floor - Living Room:**

Painted wood window components: In fair condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door's components : In fair condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

**2<sup>nd</sup> Floor - Kitchen:**

Painted plaster & wood walls: In poor to fair condition.

- Option 1: Remove wall system to the framing material using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier and include into an operation & maintenance plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood riser: In fair condition.

- Option 1: Remove stair system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door's components (including closet door) : In fair condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In fair condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices

and re-coat with lead free coatings.

Painted wood baseboards: In fair condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

## **2<sup>nd</sup> Floor - Bathroom 2:**

Painted wood door's components: In intact condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In fair condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Bathtub: In intact condition.

- Option 1: Include into an Operation & Maintenance Plan with ongoing monitoring. Do not use harsh abrasives for cleaning as these may abrade the surfaces.
- Option 2: Enclose under a lead free tub surround system and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove tub using Lead Safe Work Practices and replace with new lead free products.

## **2<sup>nd</sup> Floor - Bedroom 2:**

Painted wood door's components (including closet door): In intact condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free door components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood baseboards: In intact condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In fair condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

**Lead Dust:**

- Dust was identified as a lead hazard on window and floor surfaces tested. All floors and window systems should be cleaned and made smooth and cleanable. If planned renovation or work activity will disturb lead coated surfaces, lead safe work practices should be followed, which include requirements for clean up of the work area and clearance testing.

**Bare Soil:**

Bare soil was not observed due to snow cover. If bare soil is present it is assumed to be above the MDH standard of 100 parts per million.

- Abatement Option 1: Removal of bare soil and replacement with new soil of 25 parts per million of lead or less.
- Abatement Option 2: Covering bare soil with asphalt, concrete or other impervious coating.

When qualified contractors are performing the planned renovation/remodeling activities, precautions should be properly done to minimize the potential for lead-based paint contamination to the workers, occupants and the environment.

**DISCUSSION**

The mere presence of lead-coated surfaces does not create a lead hazard. Maintenance of lead containing coatings will prevent lead from becoming a hazard. Lead-based paint above the action level of 1.0 mg/cm<sup>2</sup> was found on surfaces tested.

Because exterior surfaces are to be remediated and lead-coatings are present, covering the ground and providing adequate protection to soil is very important. Bare soil is not currently present and steps should be taken to keep bare soil from being generated.

Dust wipe samples collected found lead dust levels above the action levels on floor and window surfaces tested as defined by MDH, HUD and EPA in the sampling locations tested. Contractors will be required to clean all floor systems and window surfaces throughout the complex for lead hazards in dust following and as a part of the planned restoration.

The preceding lead reduction recommendations include different ways to treat each lead hazard that was identified by the risk assessment/inspection. The most effective treatments are considered abatement and require little or no ongoing maintenance to preserve a lead safe environment. The less effective treatments are called interim controls and these treatments require an increased amount of ongoing maintenance to preserve a lead safe environment.

If no lead dust, soil, or lead-based paint is found, then no monitoring is required.

If no hazards are found, but lead-based paint is found, then reevaluation should occur every three years, and an owner's visual survey should occur annually.

If lead dust, soil, or lead-based paint hazards are found to be present, choosing the option with removal of all lead-based paint will result in no monitoring requirements. If abatement options are chosen that include enclosure, then no re-evaluation is required, but the owner should conduct visual surveys every year to ensure the enclosure has not failed. If the interim control options (stabilize and paint) are chosen, then re-evaluation should occur after the first year and then every two years after that. Visual surveys by the owner should occur annually.

If lead dust levels are found to be more than ten times the standard levels, then reevaluation after interim control measures should occur six months after the hazard reduction.

In general, all painted surfaces should be monitored. A negative result does not necessarily indicate that no lead is present in that surface, but rather indicates that any lead present in that surface does not rise above the 1.0 mg/cm<sup>2</sup> threshold in the areas tested. Therefore, all painted surfaces should be maintained in accordance with the Minnesota Department of Health standards.

**ROUGH ESTIMATED COSTS:**

- Work site preparation for interior, approximately \$75.00 to \$250.00 per room.
- Window replacement, approximately \$150.00 and up, depending on style.
- Exterior preparation approximately \$35.00 to \$75.00 per component (i.e., windows, doors), removal or enclosure.
- Work area cleaning: \$0.15 to \$0.35 per square foot.
- Paint stabilization: \$0.20 to \$0.65 per square foot.
- Removal: Paint - chemical stripper: \$0.65 to \$1.50 square foot.
- Soil Remediation:
  - a. Clean-up of visible exterior paint chips: \$0.90 to \$1.35 square foot.
  - b. Seed and tack grass: \$0.45 to \$0.75 square foot.
  - c. Sod: \$1.25 to \$3.30 square foot.
  - d. Regrade at foundation and sod: \$3.00 to \$5.00 square foot.
  - e. Mulch - 4": \$0.50 to \$0.90 square foot.
  - f. Concrete: \$4.50 to \$8.00 square foot.
  - g. Replace soil: \$42.00 to \$65.00 cubic yard.

If work is going to be performed on these surfaces, individuals and/or contractors should be informed of the results of testing. At a minimum, the person(s) performing the work should follow the requirements of the Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1926.62, Lead in the Construction Industry.

For the protection of the occupants and workers, and because of the use of federal funds, you are required by the HUD rules to use qualified firms who are knowledgeable about the hazards associated with lead. Supervisor should be licensed and workers will be required to be licensed or certified, as MEC understands the scope of work.

Please maintain a copy of the lead inspection/risk assessment report for your records and provide a copy of the report to any contractors that may be involved in any future renovations or remodeling projects.

A copy of this lead inspection/risk assessment summary must be provided to purchasers or lessees (tenants) of this property under Federal Law (24 CFR Part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract.

The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

It has been our pleasure to provide this service to you and your organization. Please contact me if you have questions relating to any aspect of this work.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "G. Bradley Nelson", with a long, sweeping flourish extending to the right.

G. Bradley Nelson  
Project Manager

**APPENDIX A**  
**INSPECTOR CREDENTIALS**

# Minnesota Department of Health

has authorized

**Midwest Environmental Consulting, LLC**  
**145 2nd Ave SE**  
**Cambridge, Minnesota 55008**

in accordance with Minnesota Statutes, section 144.9505 and Minnesota Rules, part 4761.2200,  
to practice in the State of Minnesota as a

## Certified Lead Firm

License No: LF551  
Expires 03/28/2012

This certificate is nontransferable.

---

  
Linda B. Bruemmer, Director  
Division of Environmental Health



**LEAD**  
Project Designer

Licensed by:  
State of Minnesota  
Department of Health  
License No. LD938  
Expires 10/20/2011

G Bradley Nelson  
22230 County 118  
Guthrie, MN 56461

*G. Bradley Nelson*  
Director, Env. Health Div.



**LEAD**  
Risk Assessor

Licensed by:  
State of Minnesota  
Department of Health  
License No. LR938  
Expires 06/11/2012

G Bradley Nelson  
22230 County 118  
Guthrie, MN 56461

*G. Bradley Nelson*  
Director, Env. Health Div.



## Gordon Bradley Nelson

has completed the Minnesota-Approved Lead Training course entitled:

### Lead Risk Assessor Refresher Training

May 11, 2011

given by

Midwest Environmental Consulting, L.L.C.

145 - 2<sup>nd</sup> Avenue SE, Cambridge, MN 55008

Phone: 763.691.0111

**SUCCESSFULLY PASSED THE EXAMINATION ON May 11, 2011, IN Cambridge, MINNESOTA**

IDENTIFICATION NUMBER: MEC/LRAR 0810

Expiration Date: May 11, 2012

MDH Permit Number: RAR-006

  
Course Director/Primary Instructor

Approved by the State of Minnesota under Minnesota Rules, parts 4761.2000 to 4761.2700.



# Lead Risk Assessor Independent Examination

121 East Seventh Place, Suite 220 • St. Paul, Minnesota 55101 • (651) 215-0700

*This certifies that*

**G. Bradley Nelson**

*has successfully passed the required independent examination for:*

**Lead Risk Assessor**

May 20, 2005

Cambridge, Minnesota

*This certificate is nontransferable.*

Dianne Mandernach  
Commissioner

Patricia A. Bloomgren, Director  
Division of Environmental Health

**APPENDIX B**

**XRF TEST RESULTS  
SAMPLING MAPS  
DATA PAGES  
CALIBRATION DATA**

EXTERIOR-HOUSE  
SKETCH NOT TO SCALE  
DRAWN BY: BRAD NELSON  
MIDWEST ENVIRONMENTAL  
CONSULTING  
January 24, 2012

*Brad Nelson*

RES  
ALLEY

N  
767 4<sup>th</sup> St. E.  
St. Paul, Minnesota  
Exterior

UAewt  
TOT

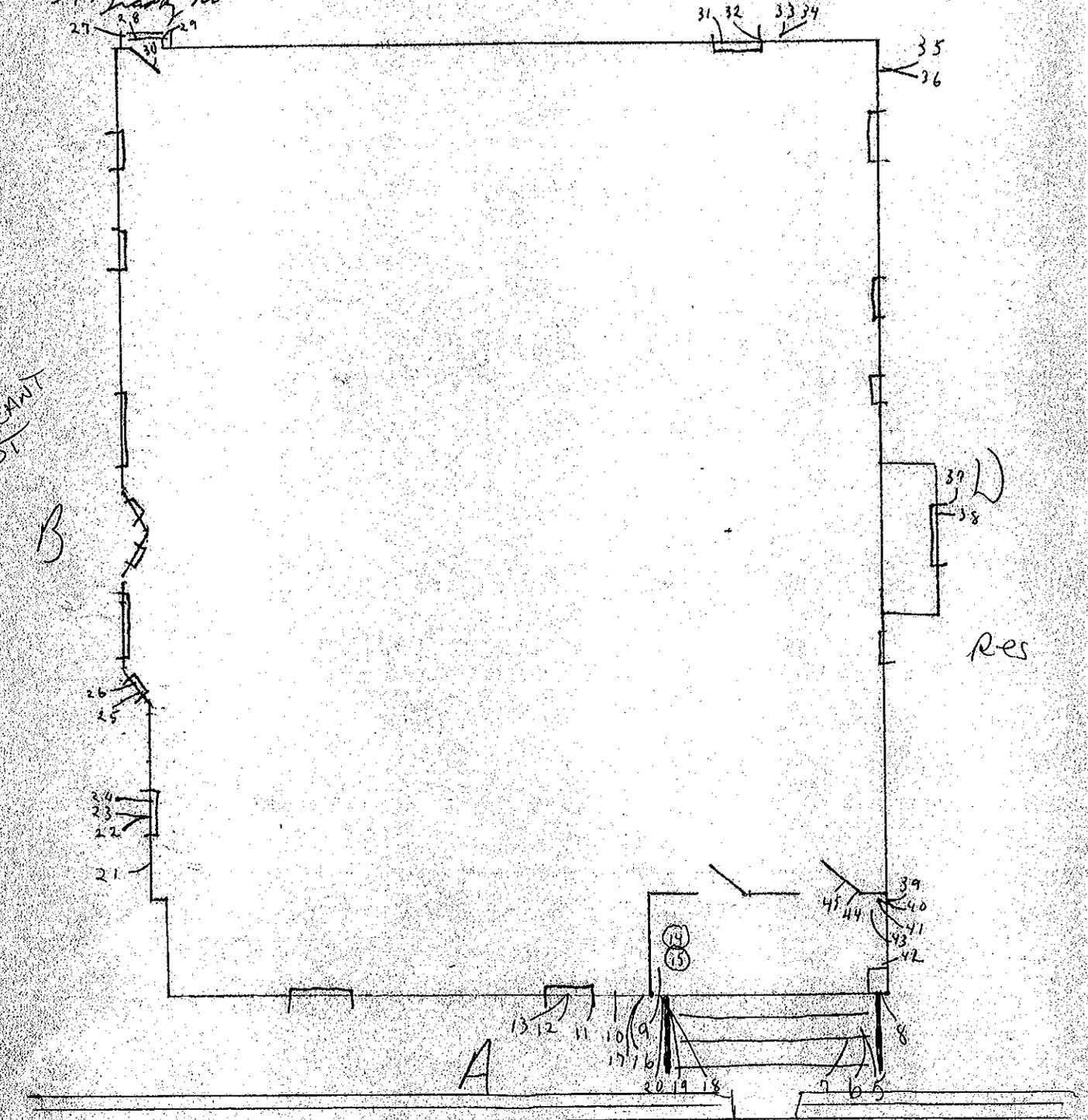
B

A

Res

4<sup>th</sup> Street East

RES

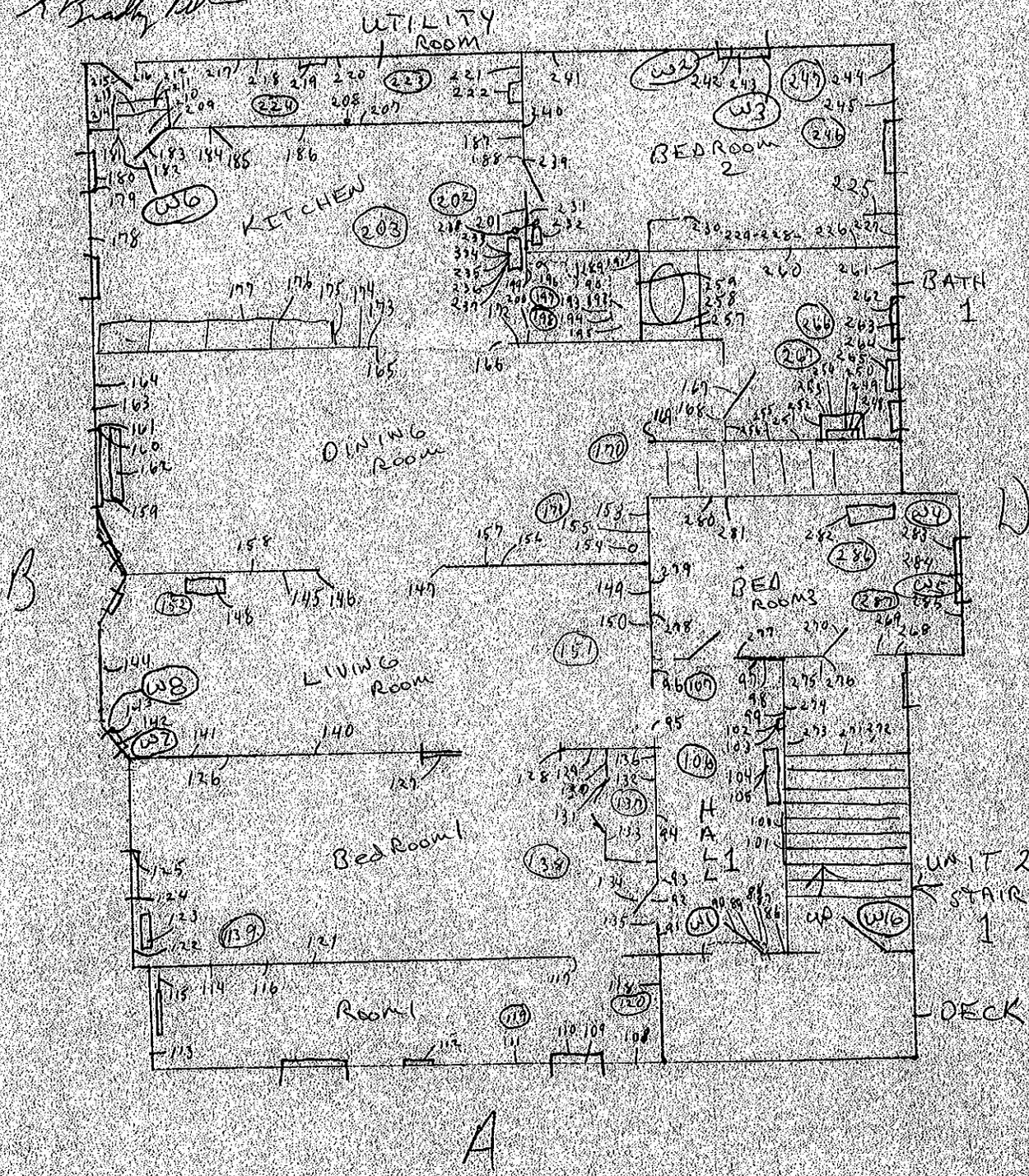


SKETCH NOT TO SCALE  
MIDWEST ENVIRONMENTAL  
CONSULTING

January 24, 2012

*A. Brady*

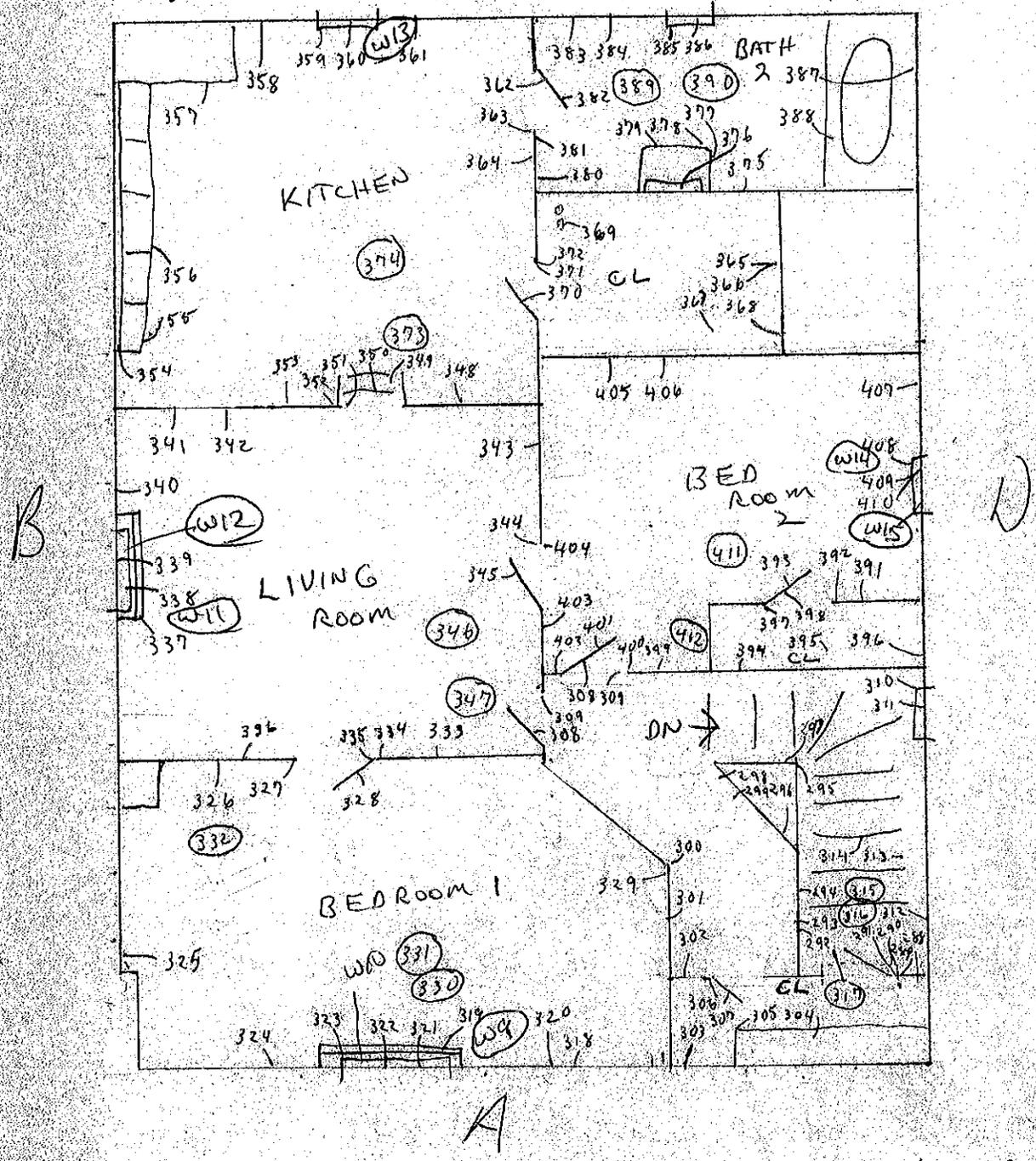
↑ N  
767 4th St. E.  
St. Paul, Minnesota  
First Floor



A  
4th Street East

SKETCH NOT TO  
SCALE  
MIDWEST ENVIRONMENTAL  
CONSULTING  
January 24, 2012  
A. Bradley

↑  
N  
767 4th St. East  
ST. PAUL, MINNESOTA  
2<sup>nd</sup> FLOOR



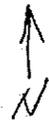
W17 = FIELD BLANK

4<sup>th</sup> street East

SKETCH NOT TO SCALE  
MIDWEST ENVIRONMENTAL  
CONSULTING

January 24, 2012

*A. Brundage*

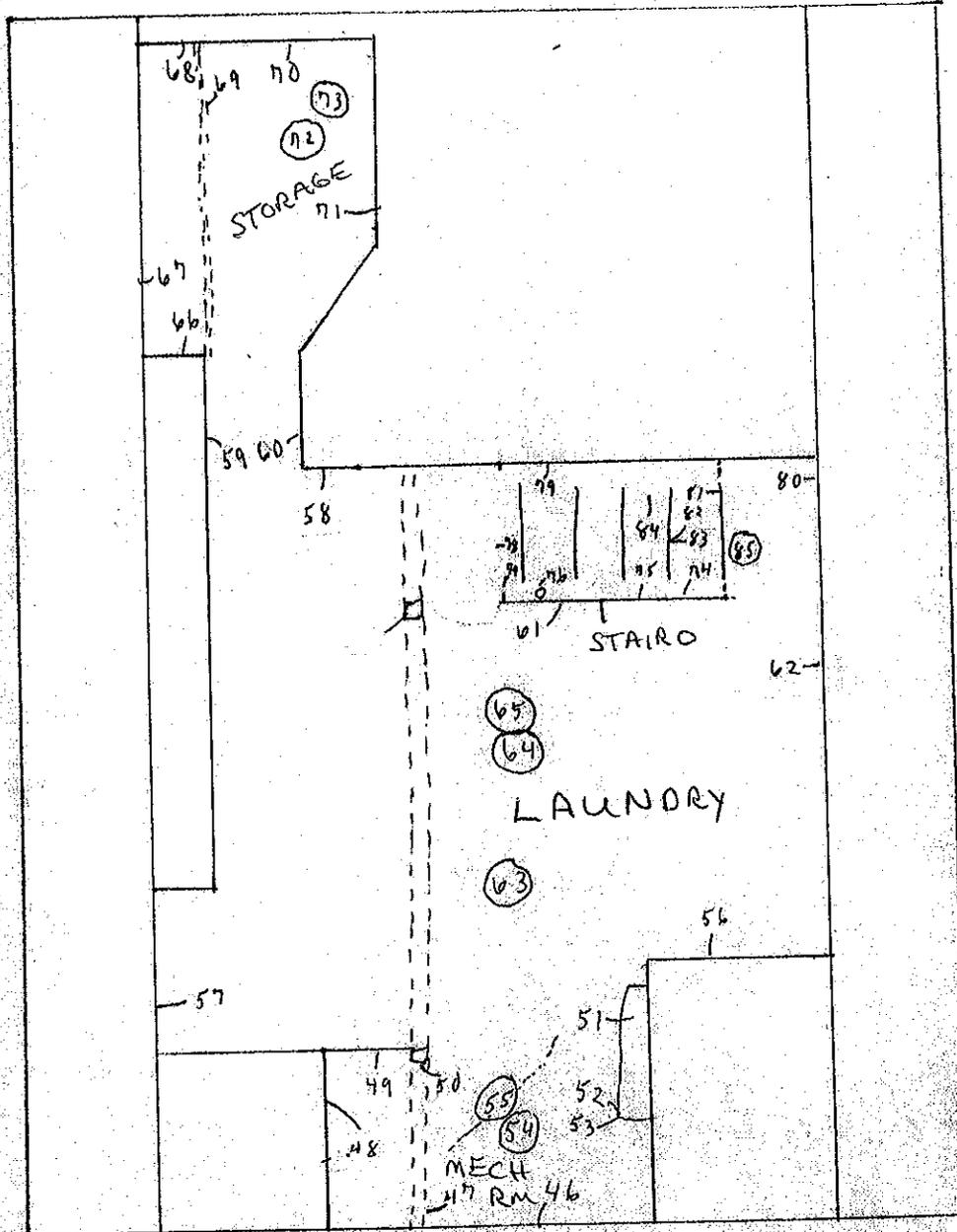


767 4<sup>th</sup> St. East  
St. Paul, Minnesota  
Basement

C

B

D



A

4<sup>th</sup> Street East

All Phase Companies  
 767 - 4th Street East  
 St. Paul MN

Site: All Phase Companies - 767 - 4th Street East, St. Paul MN

Date: Jan. 24, 2012

XRF: XLP 303A, Serial #8790

| Site          | XRF # | Date      | Flow  | Room | Dir.    | Side | Component      | Substrate | Condition | Color  | Resist. | PbC  | Pb   | PbK   | Duration | Depth | InSP |
|---------------|-------|-----------|-------|------|---------|------|----------------|-----------|-----------|--------|---------|------|------|-------|----------|-------|------|
|               | 1     | 1/24/2012 | 9:31  |      |         |      |                |           |           |        |         | 2.5  | 0.37 | 0     | 165.03   |       |      |
| 767 4th St. E | 2     | 1/24/2012 | 9:34  |      |         |      | Calibration    |           |           |        | POS     | 1.2  | 1.2  | 0.6   | 20.27    | 1.13  | GBN  |
| 767 4th St. E | 3     | 1/24/2012 | 9:36  |      |         |      | Calibration    |           |           |        | POS     | 1.1  | 1.1  | 0.5   | 20.29    | 1.09  | GBN  |
| 767 4th St. E | 4     | 1/24/2012 | 9:37  |      |         |      | Calibration    |           |           |        | POS     | 1.1  | 1.1  | 0.3   | 20.26    | 1.12  | GBN  |
| 767 4th St. E | 5     | 1/24/2012 | 9:43  | Ext  | Outside | A    | Stair Tread    | Wood      | Poor      | Red    | Neg     | 0    | 0    | 0.4   | 2.67     | 1     | GBN  |
| 767 4th St. E | 6     | 1/24/2012 | 9:43  | Ext  | Outside | A    | Stair Tread    | Wood      | Poor      | Red    | Null    | 0    | 0    | -0.32 | 0.41     | 1     | GBN  |
| 767 4th St. E | 7     | 1/24/2012 | 9:44  | Ext  | Outside | A    | Stair Riser    | Wood      | Poor      | Red    | Neg     | 0    | 0    | -0.29 | 2.66     | 1     | GBN  |
| 767 4th St. E | 8     | 1/24/2012 | 9:45  | Ext  | Outside | A    | Column         | Wood      | Poor      | White  | POS     | 1.6  | 0.9  | 1.6   | 8.62     | 3.09  | GBN  |
| 767 4th St. E | 9     | 1/24/2012 | 9:45  | Ext  | Outside | A    | Deck           | Wood      | Poor      | Red    | Neg     | 0    | 0    | 0.28  | 2.87     | 1     | GBN  |
| 767 4th St. E | 10    | 1/24/2012 | 9:46  | Ext  | Outside | A    | Siding         | Vinyl     | Poor      | Yellow | Neg     | 0    | 0    | -0.15 | 3.29     | 1     | GBN  |
| 767 4th St. E | 11    | 1/24/2012 | 9:47  | Ext  | Outside | A    | Window Trim    | Metal     | Poor      | White  | POS     | 2.8  | 0.6  | 2.8   | 3.48     | 10    | GBN  |
| 767 4th St. E | 12    | 1/24/2012 | 9:48  | Ext  | Outside | A    | Window Well    | Metal     | Poor      | White  | Null    | 0.9  | 0.9  | 6.1   | 0.41     | 10    | GBN  |
| 767 4th St. E | 13    | 1/24/2012 | 9:48  | Ext  | Outside | A    | Window Well    | Metal     | Poor      | White  | POS     | 5.8  | 0.6  | 5.8   | 2.66     | 10    | GBN  |
| 767 4th St. E | 14    | 1/24/2012 | 9:51  | Ext  | Outside |      | Ceiling        | Metal     | Poor      | White  | Null    | 1    | 0.3  | 1     | 30.41    | 10    | GBN  |
| 767 4th St. E | 15    | 1/24/2012 | 9:52  | Ext  | Outside |      | Ceiling        | Metal     | Poor      | White  | Neg     | 0.02 | 0.02 | -0.31 | 4.09     | 4.55  | GBN  |
| 767 4th St. E | 16    | 1/24/2012 | 9:53  | Ext  | Outside | A    | Soffit         | Metal     | Poor      | White  | Null    | 0.09 | 0.09 | 0.7   | 3.49     | 6.84  | GBN  |
| 767 4th St. E | 17    | 1/24/2012 | 9:54  | Ext  | Outside | A    | Soffit         | Metal     | Poor      | White  | POS     | 6.7  | 0.4  | 6.7   | 2.66     | 10    | GBN  |
| 767 4th St. E | 18    | 1/24/2012 | 9:55  | Ext  | Outside | A    | Fascia         | Metal     | Poor      | White  | POS     | 8.7  | 0.02 | 8.7   | 0.82     | 2.14  | GBN  |
| 767 4th St. E | 19    | 1/24/2012 | 9:55  | Ext  | Outside | A    | Fascia         | Metal     | Poor      | White  | POS     | 6.4  | 0.08 | 6.4   | 1.23     | 6.72  | GBN  |
| 767 4th St. E | 20    | 1/24/2012 | 9:56  | Ext  | Outside | A    | Fascia         | Metal     | Poor      | White  | POS     | 6.5  | 0.02 | 6.5   | 2.88     | 2.6   | GBN  |
| 767 4th St. E | 21    | 1/24/2012 | 9:58  | Ext  | Outside | B    | Siding         | Vinyl     | F         | Yellow | POS     | 1.6  | 0.11 | 1.6   | 7.8      | 10    | GBN  |
| 767 4th St. E | 22    | 1/24/2012 | 9:59  | Ext  | Outside | B    | Window Well    | Metal     | Poor      | White  | Null    | 0.5  | 0.5  | 0.9   | 11.1     | 10    | GBN  |
| 767 4th St. E | 23    | 1/24/2012 | 9:59  | Ext  | Outside | B    | Window Well    | Metal     | Poor      | White  | POS     | 28.6 | 1.8  | 28.6  | 2.45     | 10    | GBN  |
| 767 4th St. E | 24    | 1/24/2012 | 10:00 | Ext  | Outside | B    | Window         | Wood      | Poor      | Grey   | Neg     | 0.01 | 0.01 | -0.57 | 2.66     | 1.48  | GBN  |
| 767 4th St. E | 25    | 1/24/2012 | 10:01 | Ext  | Outside | B    | Window Jamb    | Wood      | Poor      | White  | POS     | 19.7 | 9.1  | 19.7  | 2.26     | 2.09  | GBN  |
| 767 4th St. E | 26    | 1/24/2012 | 10:02 | Ext  | Outside | B    | Window Sash    | Wood      | Poor      | White  | Neg     | 0.6  | 0.6  | 0.4   | 3.28     | 1.44  | GBN  |
| 767 4th St. E | 27    | 1/24/2012 | 10:03 | Ext  | Outside | C    | Stair Tread    | Wood      | Poor      | Grey   | Neg     | 0    | 0    | -0.4  | 2.66     | 1     | GBN  |
| 767 4th St. E | 28    | 1/24/2012 | 10:04 | Ext  | Outside | C    | Stair Riser    | Wood      | Poor      | Green  | Neg     | 0    | 0    | -0.52 | 4.31     | 1     | GBN  |
| 767 4th St. E | 29    | 1/24/2012 | 10:05 | Ext  | Outside | C    | Door Jamb      | Wood      | Poor      | White  | Neg     | 0    | 0    | -0.48 | 2.86     | 1     | GBN  |
| 767 4th St. E | 30    | 1/24/2012 | 10:05 | Ext  | Outside | C    | Door           | Metal     | Poor      | White  | Neg     | 0    | 0    | 0.15  | 3.08     | 1     | GBN  |
| 767 4th St. E | 31    | 1/24/2012 | 10:06 | Ext  | Outside | C    | Window Sash    | Wood      | Poor      | White  | POS     | 3.5  | 3.5  | 2.8   | 2.67     | 2.75  | GBN  |
| 767 4th St. E | 32    | 1/24/2012 | 10:06 | Ext  | Outside | C    | Window Jamb    | Wood      | Poor      | White  | POS     | 28.9 | 10.1 | 28.9  | 2.05     | 2.53  | GBN  |
| 767 4th St. E | 33    | 1/24/2012 | 10:07 | Ext  | Outside | C    | Siding         | Vinyl     | Fair      | Yellow | Null    | 0.09 | 0.09 | 1.8   | 2.06     | 10    | GBN  |
| 767 4th St. E | 34    | 1/24/2012 | 10:08 | Ext  | Outside | C    | Siding         | Vinyl     | Fair      | Yellow | POS     | 1.5  | 0.06 | 1.5   | 9.65     | 10    | GBN  |
| 767 4th St. E | 35    | 1/24/2012 | 10:09 | Ext  | Outside | D    | Siding         | Vinyl     | Fair      | Yellow | Neg     | 0    | 0    | -0.27 | 2.87     | 1     | GBN  |
| 767 4th St. E | 36    | 1/24/2012 | 10:10 | Ext  | Outside | D    | Siding         | Vinyl     | Fair      | Yellow | POS     | 2.1  | 0.1  | 2.1   | 5.55     | 10    | GBN  |
| 767 4th St. E | 37    | 1/24/2012 | 10:11 | Ext  | Outside | D    | Window Trim    | Metal     | Poor      | Yellow | POS     | 11.5 | 1.9  | 11.5  | 5.31     | 10    | GBN  |
| 767 4th St. E | 38    | 1/24/2012 | 10:12 | Ext  | Outside | D    | Window Well    | Metal     | Poor      | White  | POS     | 1.8  | 0.4  | 1.8   | 5.53     | 10    | GBN  |
| 767 4th St. E | 39    | 1/24/2012 | 10:14 | Ext  | Outside | D    | Batt and board | Wood      | Poor      | Red    | Neg     | 0.06 | 0.06 | -0.46 | 2.66     | 5.64  | GBN  |

All Phase Companies  
767 - 4th Street East  
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| Site         | XRF | Date/Time       | Floor | Room       | Side | Component    | Substrate | Color   | Results | PbC   | PbT  | PbK   | Distortion | Depth | Instr |
|--------------|-----|-----------------|-------|------------|------|--------------|-----------|---------|---------|-------|------|-------|------------|-------|-------|
| 767 4th St E | 40  | 1/24/2012 10:17 | Ext   | Outside    | D    | Railing      | Wood      | White   | Null    | 1.1   | 0.08 | 1.1   | 32.49      | 10    | GBN   |
| 767 4th St E | 41  | 1/24/2012 10:19 | Ext   | Outside    | D    | Railing      | Wood      | White   | Null    | 1.1   | 0.1  | 1.1   | 38.22      | 10    | GBN   |
| 767 4th St E | 42  | 1/24/2012 10:20 | Ext   | Outside    | D    | Railing      | Wood      | White   | Neg     | 0.15  | 0.1  | 0.15  | 5.54       | 8.89  | GBN   |
| 767 4th St E | 43  | 1/24/2012 10:21 | Ext   | Outside    | D    | Railing trim | Wood      | White   | POS     | 7.8   | 1.2  | 7.8   | 2.47       | 10    | GBN   |
| 767 4th St E | 44  | 1/24/2012 10:22 | Ext   | Outside    | D    | Door Jamb    | Wood      | White   | Neg     | 0     | 0    | -0.08 | 2.88       | 1     | GBN   |
| 767 4th St E | 45  | 1/24/2012 10:23 | Ext   | Outside    | D    | Door         | Wood      | Natural | Neg     | 0     | 0    | -0.72 | 2.86       | 1     | GBN   |
| 767 4th St E | 46  | 1/24/2012 10:42 | 0     | Mechanical | A    | Wall         | Wood      | Bone    | Neg     | 0     | 0    | -0.42 | 2.88       | 1     | GBN   |
| 767 4th St E | 47  | 1/24/2012 10:43 | 0     | Mechanical | A    | Beam         | Wood      | Bone    | Neg     | 0     | 0    | -0.04 | 2.66       | 1     | GBN   |
| 767 4th St E | 48  | 1/24/2012 10:44 | 0     | Mechanical | B    | Wall         | Concrete  | Bone    | Neg     | 0.01  | 0.01 | -0.7  | 3.29       | 1.18  | GBN   |
| 767 4th St E | 49  | 1/24/2012 10:45 | 0     | Mechanical | C    | Baseboard    | Wood      | Bone    | Neg     | 0     | 0    | -0.09 | 2.66       | 1     | GBN   |
| 767 4th St E | 50  | 1/24/2012 10:46 | 0     | Mechanical | C    | Column       | Wood      | Bone    | Neg     | 0.05  | 0.05 | -0.1  | 2.67       | 1.29  | GBN   |
| 767 4th St E | 51  | 1/24/2012 10:46 | 0     | Mechanical | D    | Shelf        | Wood      | Bone    | Neg     | 0     | 0    | -0.45 | 2.66       | 1     | GBN   |
| 767 4th St E | 52  | 1/24/2012 10:47 | 0     | Mechanical | D    | Bracket      | Wood      | Bone    | Neg     | 0     | 0    | -0.02 | 2.67       | 1     | GBN   |
| 767 4th St E | 53  | 1/24/2012 10:47 | 0     | Mechanical | D    | Bracket      | Wood      | Bone    | Neg     | 0     | 0    | -0.13 | 2.66       | 1     | GBN   |
| 767 4th St E | 54  | 1/24/2012 10:48 | 0     | Mechanical |      | Ceiling      | Wood      | Bone    | Neg     | 0     | 0    | -0.61 | 2.67       | 1     | GBN   |
| 767 4th St E | 55  | 1/24/2012 10:50 | 0     | Mechanical |      | Floor        | Concrete  | Orange  | Neg     | 0.03  | 0.03 | -0.81 | 3.06       | 1.92  | GBN   |
| 767 4th St E | 56  | 1/24/2012 10:52 | 0     | Laundry    | A    | Wall         | Drywall   | Bone    | Neg     | 0     | 0    | -0.81 | 2.66       | 1.01  | GBN   |
| 767 4th St E | 57  | 1/24/2012 10:53 | 0     | Laundry    | B    | Wall         | Drywall   | Bone    | Neg     | 0     | 0    | -0.31 | 2.87       | 1     | GBN   |
| 767 4th St E | 58  | 1/24/2012 10:54 | 0     | Laundry    | C    | Wall         | Drywall   | Bone    | Neg     | 0     | 0    | -0.2  | 2.87       | 1     | GBN   |
| 767 4th St E | 59  | 1/24/2012 10:54 | 0     | Laundry    | C    | Wall         | Drywall   | Bone    | Neg     | 0     | 0    | -0.72 | 3.08       | 1     | GBN   |
| 767 4th St E | 60  | 1/24/2012 10:55 | 0     | Laundry    | C    | Wall         | Drywall   | Bone    | Neg     | 0.01  | 0.01 | -0.66 | 2.87       | 3.88  | GBN   |
| 767 4th St E | 61  | 1/24/2012 10:56 | 0     | Laundry    | C    | Stringer     | Wood      | Bone    | Neg     | -0.25 | 0.07 | -0.25 | 3.08       | 10    | GBN   |
| 767 4th St E | 62  | 1/24/2012 10:56 | 0     | Laundry    | D    | Wall         | Drywall   | Bone    | Neg     | 0     | 0    | -0.42 | 2.66       | 1     | GBN   |
| 767 4th St E | 63  | 1/24/2012 10:57 | 0     | Laundry    |      | Ceiling      | Wood      | Natural | Neg     | 0     | 0    | -0.7  | 2.67       | 1.1   | GBN   |
| 767 4th St E | 64  | 1/24/2012 10:58 | 0     | Laundry    |      | Floor        | Concrete  | Bone    | Neg     | 0.06  | 0.06 | -0.92 | 2.87       | 1.82  | GBN   |
| 767 4th St E | 65  | 1/24/2012 10:58 | 0     | Laundry    |      | Floor        | Concrete  | Bone    | Neg     | 0.07  | 0.07 | -0.36 | 3.48       | 1.88  | GBN   |
| 767 4th St E | 66  | 1/24/2012 11:00 | 0     | Storage    | A    | Wall         | Wood      | Bone    | Neg     | 0     | 0    | -0.54 | 2.88       | 1.33  | GBN   |
| 767 4th St E | 67  | 1/24/2012 11:01 | 0     | Storage    | B    | Wall         | Wood      | Bone    | Neg     | 0     | 0    | -0.44 | 2.67       | 1     | GBN   |
| 767 4th St E | 68  | 1/24/2012 11:01 | 0     | Storage    | C    | Wall         | Wood      | Bone    | Neg     | 0     | 0    | -0.03 | 2.66       | 1     | GBN   |
| 767 4th St E | 69  | 1/24/2012 11:02 | 0     | Storage    | C    | Beam         | Wood      | Bone    | Neg     | 0     | 0    | -0.09 | 2.67       | 1     | GBN   |
| 767 4th St E | 70  | 1/24/2012 11:02 | 0     | Storage    | C    | Baseboard    | Wood      | Bone    | Neg     | 0     | 0    | 0     | 4.12       | 1     | GBN   |
| 767 4th St E | 71  | 1/24/2012 11:04 | 0     | Storage    | D    | Wall         | Wood      | Bone    | Neg     | 0     | 0    | -0.4  | 2.87       | 1     | GBN   |
| 767 4th St E | 72  | 1/24/2012 11:04 | 0     | Storage    |      | Ceiling      | Wood      | Bone    | Neg     | 0     | 0    | -0.77 | 2.66       | 1     | GBN   |
| 767 4th St E | 73  | 1/24/2012 11:05 | 0     | Storage    |      | Floor        | Concrete  | Grey    | Neg     | 0     | 0    | -0.52 | 3.87       | 1     | GBN   |
| 767 4th St E | 74  | 1/24/2012 11:09 | 0     | Stairway   | A    | Wall         | Drywall   | Bone    | Neg     | 0.5   | 1.3  | 0.5   | 32.02      | 10    | GBN   |
| 767 4th St E | 75  | 1/24/2012 11:09 | 0     | Stairway   | A    | Wall         | Drywall   | Bone    | POS     | 1.7   | 1.7  | 0.7   | 5.32       | 6.7   | GBN   |
| 767 4th St E | 76  | 1/24/2012 11:10 | 0     | Stairway   | A    | pipe         | Drywall   | Bone    | Neg     | 0.17  | 0.17 | 0.25  | 2.46       | 4.38  | GBN   |
| 767 4th St E | 77  | 1/24/2012 11:11 | 0     | Stairway   | A    | Door Stop    | Wood      | Bone    | POS     | 8.6   | 8.8  | 8.6   | 4.51       | 2.32  | GBN   |
| 767 4th St E | 78  | 1/24/2012 11:12 | 0     | Stairway   | B    | Door header  | Wood      | Bone    | POS     | 6.4   | 7.2  | 6.4   | 2.25       | 2.4   | GBN   |
| 767 4th St E | 79  | 1/24/2012 11:13 | 0     | Stairway   | C    | Wall         | Plaster   | Bone    | POS     | 1.6   | 1.6  | 0.5   | 9.64       | 5.18  | GBN   |
| 767 4th St E | 80  | 1/24/2012 11:14 | 0     | Stairway   | D    | Wall         | Wood      | Bone    | POS     | 1.8   | 1.8  | 2.5   | 2.87       | 1.98  | GBN   |
| 767 4th St E | 81  | 1/24/2012 11:16 | 0     | Stairway   | D    | Stair Skirt  | Wood      | Bone    | POS     | 1.6   | 1.1  | 1.6   | 7.99       | 4.76  | GBN   |
| 767 4th St E | 82  | 1/24/2012 11:18 | 0     | Stairway   | D    | Stair Riser  | Wood      | Yellow  | Neg     | 0     | 0    | 0.11  | 1.43       | 1     | GBN   |

All Phase Companies  
 767 - 4th Street East  
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| Site         | CR  | Date/Time       | Floor | Room      | Rm | Side | Component     | Substrate | Condition | Color     | Results | PbC   | PbK  | Duration | Depth | Inch |
|--------------|-----|-----------------|-------|-----------|----|------|---------------|-----------|-----------|-----------|---------|-------|------|----------|-------|------|
| 767 4th St E | 83  | 1/24/2012 11:18 | 0     | Stairway  | D  |      | Stair Riser   | Wood      | Poor      | Yellow    | Neg     | 0     | 0    | -0.54    | 2.88  | 1    |
| 767 4th St E | 84  | 1/24/2012 11:19 | 0     | Stairway  | D  |      | Stair Tread   | Wood      | Poor      | Bone      | Neg     | 0.09  | 0.09 | -0.21    | 2.86  | 2.55 |
| 767 4th St E | 85  | 1/24/2012 11:21 | 0     | Stairway  |    |      | Ceiling       | Drywall   | Poor      | Bone      | Neg     | 0.5   | 1.1  | 0.5      | 14.56 | 8.65 |
| 767 4th St E | 86  | 1/24/2012 11:41 | 1     | Hallway   | A  |      | Wall          | Plaster   | Poor      | Bone      | Neg     | 0.03  | 0.03 | -0.59    | 5.54  | 3.19 |
| 767 4th St E | 87  | 1/24/2012 11:42 | 1     | Hallway   | A  |      | Transom sash  | Wood      | Intact    | Bone      | POS     | 13.1  | 10.1 | 13.1     | 2.46  | 4.57 |
| 767 4th St E | 88  | 1/24/2012 11:42 | 1     | Hallway   | A  |      | Transom trim  | Wood      | Intact    | Bone      | POS     | 8.2   | 9    | 8.2      | 2.46  | 2.88 |
| 767 4th St E | 89  | 1/24/2012 11:43 | 1     | Hallway   | A  |      | Door trim     | Wood      | Intact    | Bone      | POS     | 8.7   | 10.1 | 8.7      | 2.46  | 4.2  |
| 767 4th St E | 90  | 1/24/2012 11:43 | 1     | Hallway   | A  |      | Door          | Wood      | Intact    | Natural   | Neg     | 0     | 0    | -0.69    | 2.67  | 1    |
| 767 4th St E | 91  | 1/24/2012 11:45 | 1     | Hallway   | B  |      | Chair rail    | Wood      | Intact    | Bone      | Neg     | 0.3   | 0.3  | 0.12     | 2.87  | 2.54 |
| 767 4th St E | 92  | 1/24/2012 11:45 | 1     | Hallway   | B  |      | Door          | Wood      | Intact    | Bone      | POS     | 11.6  | 10.1 | 11.6     | 2.67  | 3.58 |
| 767 4th St E | 93  | 1/24/2012 11:46 | 1     | Hallway   | B  |      | Door Casing   | Wood      | Intact    | Bone      | POS     | 7.5   | 9.2  | 7.5      | 2.04  | 2.48 |
| 767 4th St E | 94  | 1/24/2012 11:46 | 1     | Hallway   | B  |      | Baseboard     | Wood      | Intact    | Bone      | POS     | 10.2  | 10.1 | 10.2     | 2.25  | 2.71 |
| 767 4th St E | 95  | 1/24/2012 11:47 | 1     | Hallway   | B  |      | Door Jamb     | Wood      | Intact    | Bone      | POS     | 9.7   | 10.1 | 9.7      | 6.76  | 3.57 |
| 767 4th St E | 96  | 1/24/2012 11:48 | 1     | Hallway   | B  |      | Wall          | Plaster   | Poor      | Bone      | Neg     | 0.01  | 0.01 | -0.3     | 3.89  | 3.1  |
| 767 4th St E | 97  | 1/24/2012 11:50 | 1     | Hallway   | C  |      | Wall          | Plaster   | Intact    | Bone      | Neg     | 0.09  | 0.09 | -0.24    | 3.87  | 2.34 |
| 767 4th St E | 98  | 1/24/2012 11:51 | 1     | Hallway   | C  |      | Wainscoat     | Plaster   | Intact    | Bone      | Neg     | 0.04  | 0.04 | -0.61    | 8.62  | 6.17 |
| 767 4th St E | 99  | 1/24/2012 11:51 | 1     | Hallway   | D  |      | Baseboard     | Plaster   | Intact    | Bone      | Neg     | 0.01  | 0.01 | -0.64    | 3.49  | 2.54 |
| 767 4th St E | 100 | 1/24/2012 11:53 | 1     | Hallway   | D  |      | Coat rack     | Wood      | Intact    | Bone      | Neg     | 0     | 0    | -0.49    | 2.86  | 1    |
| 767 4th St E | 101 | 1/24/2012 11:53 | 1     | Hallway   | D  |      | Coat rack     | Wood      | Intact    | Bone      | Neg     | 0     | 0    | 0.5      | 2.87  | 1.03 |
| 767 4th St E | 102 | 1/24/2012 11:53 | 1     | Hallway   | D  |      | Newel Post    | Wood      | Intact    | Bone      | Neg     | 0.08  | 0.08 | -0.36    | 1.22  | 2.07 |
| 767 4th St E | 103 | 1/24/2012 11:54 | 1     | Hallway   | D  |      | Newel Post    | Wood      | Intact    | Bone      | Neg     | 0.07  | 0.07 | 0.07     | 2.87  | 1.86 |
| 767 4th St E | 104 | 1/24/2012 11:55 | 1     | Hallway   | D  |      | Radiator      | Metal     | Intact    | Brown     | Neg     | 0.03  | 0.03 | -0.34    | 1.23  | 1    |
| 767 4th St E | 105 | 1/24/2012 11:55 | 1     | Hallway   | D  |      | Radiator      | Metal     | Intact    | Brown     | Neg     | 0.07  | 0.07 | 0.3      | 2.66  | 2.24 |
| 767 4th St E | 106 | 1/24/2012 11:56 | 1     | Hallway   |    |      | Ceiling       | Plaster   | Intact    | Bone      | Neg     | 0     | 0    | -0.2     | 4.31  | 1    |
| 767 4th St E | 107 | 1/24/2012 12:00 | 1     | Hallway   |    |      | Floor         | Wood      | Poor      | Varnish   | Neg     | 0.03  | 0.03 | -0.34    | 3.08  | 2.16 |
| 767 4th St E | 108 | 1/24/2012 12:05 | 1     | Room 1    | A  |      | Wall          | Plaster   | Fair      | White     | Neg     | 0     | 0    | -0.41    | 5.12  | 1.06 |
| 767 4th St E | 109 | 1/24/2012 12:09 | 1     | Room 1    | A  |      | Window Sash   | Wood      | Fair      | White     | Neg     | 0.06  | 0.06 | 0        | 2.87  | 2.61 |
| 767 4th St E | 110 | 1/24/2012 12:10 | 1     | Room 1    | A  |      | Window Well   | Wood      | Fair      | White     | Neg     | 0     | 0    | -0.09    | 2.88  | 1.33 |
| 767 4th St E | 111 | 1/24/2012 12:11 | 1     | Room 1    | A  |      | Ledge         | Wood      | Fair      | White     | Neg     | 0     | 0    | -0.19    | 4.9   | 1    |
| 767 4th St E | 112 | 1/24/2012 12:12 | 1     | Room 1    | A  |      | Column        | Wood      | Fair      | White     | Neg     | 0     | 0    | -0.52    | 3.47  | 1    |
| 767 4th St E | 113 | 1/24/2012 12:13 | 1     | Room 1    | B  |      | Wall          | Drywall   | Fair      | White     | Neg     | 0     | 0    | -0.28    | 2.67  | 1    |
| 767 4th St E | 114 | 1/24/2012 12:13 | 1     | Room 1    | C  |      | Wall          | Drywall   | Fair      | White     | Neg     | 0     | 0    | -0.28    | 2.68  | 1    |
| 767 4th St E | 115 | 1/24/2012 12:14 | 1     | Room 1    | C  |      | Pipe          | Metal     | Fair      | White     | Null    | 0.05  | 0.05 | 0.26     | 4.3   | 10   |
| 767 4th St E | 116 | 1/24/2012 12:14 | 1     | Room 1    | C  |      | Baseboard     | Wood      | Fair      | White     | Neg     | 0     | 0    | 0.7      | 2.66  | 1.09 |
| 767 4th St E | 117 | 1/24/2012 12:15 | 1     | Room 1    | C  |      | Door Jamb     | Wood      | Fair      | White     | Neg     | 0     | 0    | -0.63    | 2.66  | 1    |
| 767 4th St E | 118 | 1/24/2012 12:16 | 1     | Room 1    | D  |      | Wall          | Drywall   | Fair      | White     | Neg     | 0     | 0    | -0.46    | 4.72  | 1    |
| 767 4th St E | 119 | 1/24/2012 12:17 | 1     | Room 1    |    |      | Ceiling       | Wood      | Fair      | White     | Neg     | -0.35 | 0.01 | -0.35    | 2.87  | 2.93 |
| 767 4th St E | 120 | 1/24/2012 12:21 | 1     | Room 1    |    |      | Floor         | Carpet    | Fair      | Rust      | Neg     | 0.22  | 0.22 | 1        | 4.1   | 1.15 |
| 767 4th St E | 121 | 1/24/2012 12:23 | 1     | Bedroom 1 | A  |      | Wall          | Plaster   | Poor      | Baby Blue | Neg     | 0.03  | 0.03 | -0.09    | 3.49  | 2.38 |
| 767 4th St E | 122 | 1/24/2012 12:24 | 1     | Bedroom 1 | B  |      | Wall          | Plaster   | Poor      | Baby Blue | Neg     | 0     | 0    | -0.5     | 3.68  | 1.72 |
| 767 4th St E | 123 | 1/24/2012 12:27 | 1     | Bedroom 1 | B  |      | Radiator      | Metal     | Poor      | Brown     | Neg     | 0.13  | 0.13 | 0.24     | 2.68  | 2.91 |
| 767 4th St E | 124 | 1/24/2012 12:28 | 1     | Bedroom 1 | B  |      | Window Casing | Wood      | Poor      | White     | Neg     | 0.01  | 0.01 | -0.5     | 3.88  | 1    |
| 767 4th St E | 125 | 1/24/2012 12:29 | 1     | Bedroom 1 | B  |      | Window Jamb   | Wood      | Poor      | White     | Neg     | 0     | 0    | -0.2     | 2.86  | 1    |

All Phase Companies  
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| Site         | XREF | Date      | Time  | Floor | Room        | Rm# | Stc | Component            | Substrate | Coat    | Color   | Results | PDC  | Pht  | Pbk   | Duration | Depth | USD  |     |
|--------------|------|-----------|-------|-------|-------------|-----|-----|----------------------|-----------|---------|---------|---------|------|------|-------|----------|-------|------|-----|
|              |      |           |       |       |             |     |     |                      |           |         |         |         | 4.9  | 5.7  | 4.9   | 5.13     | 2.99  | GBN  |     |
| 767 4th St E | 126  | 1/24/2012 | 12:30 | 1     | Bedroom 1   | C   | C   | Baseboard            | Wood      | Wood    | White   | POS     | 0    | 0    | 0     | -0.65    | 2.67  | 1    | GBN |
| 767 4th St E | 127  | 1/24/2012 | 12:31 | 1     | Bedroom 1   | C   | C   | Shelf                | Wood      | Wood    | White   | POS     | 10.3 | 10.1 | 10.3  | 2.66     | 3.76  | GBN  |     |
| 767 4th St E | 128  | 1/24/2012 | 12:31 | 1     | Bedroom 1   | C   | C   | Door Jamb            | Wood      | Wood    | White   | POS     | 0    | 0    | 0     | -0.21    | 4.71  | 1    | GBN |
| 767 4th St E | 129  | 1/24/2012 | 12:32 | 1     | Bedroom 1   | C   | C   | Wall                 | Plaster   | Plaster | Bone    | Neg     | 0    | 0    | 0     | -0.56    | 3.29  | 1    | GBN |
| 767 4th St E | 130  | 1/24/2012 | 12:33 | 1     | Bedroom 1   | D   | D   | Wall                 | Plaster   | Plaster | Bone    | Neg     | 0    | 0    | 0     | -0.56    | 3.29  | 1    | GBN |
| 767 4th St E | 131  | 1/24/2012 | 12:33 | 1     | Bedroom 1   | D   | D   | Door Casing          | Wood      | Wood    | White   | Neg     | 0.5  | 0.5  | 0.4   | 2.88     | 2.26  | GBN  |     |
| 767 4th St E | 131  | 1/24/2012 | 12:34 | 1     | Bedroom 1   | D   | D   | Door Casing          | Wood      | Wood    | White   | Neg     | 0.02 | 0.02 | -1.08 | 3.28     | 2.33  | GBN  |     |
| 767 4th St E | 132  | 1/24/2012 | 12:35 | 1     | Bedroom 1   | D   | D   | Closet wall          | Wood      | Wood    | White   | Neg     | 0.16 | 0.16 | -0.41 | 2.67     | 1.33  | GBN  |     |
| 767 4th St E | 133  | 1/24/2012 | 12:35 | 1     | Bedroom 1   | D   | D   | Closet jamb          | Wood      | Wood    | White   | Neg     | 0.16 | 0.16 | -0.41 | 2.67     | 1.33  | GBN  |     |
| 767 4th St E | 133  | 1/24/2012 | 12:35 | 1     | Bedroom 1   | D   | D   | Closet jamb          | Wood      | Wood    | White   | POS     | 11.5 | 10.1 | 11.5  | 5.12     | 3.6   | GBN  |     |
| 767 4th St E | 134  | 1/24/2012 | 12:36 | 1     | Bedroom 1   | D   | D   | Door                 | Wood      | Wood    | White   | POS     | 10.3 | 10.1 | 10.3  | 2.67     | 3.51  | GBN  |     |
| 767 4th St E | 135  | 1/24/2012 | 12:37 | 1     | Bedroom 1   | D   | D   | Door Casing          | Wood      | Wood    | White   | POS     | 0.02 | 0.02 | -0.53 | 3.89     | 1.36  | GBN  |     |
| 767 4th St E | 136  | 1/24/2012 | 12:38 | 1     | Bedroom 1   | D   | D   | Closet shelf wall    | Plaster   | Plaster | Tan     | Neg     | 0.02 | 0.02 | -0.12 | 3.89     | 2.75  | GBN  |     |
| 767 4th St E | 137  | 1/24/2012 | 12:39 | 1     | Bedroom 1   | D   | D   | Closet shelf ceiling | Plaster   | Plaster | Tan     | Neg     | 0.02 | 0.02 | -0.12 | 3.89     | 2.75  | GBN  |     |
| 767 4th St E | 137  | 1/24/2012 | 12:40 | 1     | Bedroom 1   | D   | D   | Closet shelf ceiling | Plaster   | Plaster | White   | Neg     | 0    | 0    | 0     | -0.39    | 4.92  | 1.66 | GBN |
| 767 4th St E | 138  | 1/24/2012 | 12:44 | 1     | Bedroom 1   | D   | D   | Ceiling              | Plaster   | Plaster | Varnish | Neg     | 0.01 | 0.01 | -0.04 | 2.87     | 1     | GBN  |     |
| 767 4th St E | 139  | 1/24/2012 | 12:44 | 1     | Bedroom 1   | D   | D   | Floor                | Wood      | Wood    | White   | Neg     | 0    | 0    | 0     | -0.62    | 2.88  | 1    | GBN |
| 767 4th St E | 140  | 1/24/2012 | 12:49 | 1     | Living Room | A   | A   | Wall                 | Plaster   | Fair    | White   | Neg     | 0    | 0    | 0     | -0.62    | 2.88  | 1    | GBN |
| 767 4th St E | 141  | 1/24/2012 | 12:50 | 1     | Living Room | A   | A   | Baseboard            | Wood      | Intact  | White   | POS     | 18.9 | 10.1 | 18.9  | 2.46     | 2.99  | GBN  |     |
| 767 4th St E | 142  | 1/24/2012 | 12:51 | 1     | Living Room | B   | B   | Window Sash          | Wood      | Intact  | White   | POS     | 19.6 | 10.1 | 19.6  | 2.05     | 2.8   | GBN  |     |
| 767 4th St E | 143  | 1/24/2012 | 12:52 | 1     | Living Room | B   | B   | Window Casing        | Wood      | Intact  | White   | POS     | 20   | 10.1 | 20    | 2.46     | 4.53  | GBN  |     |
| 767 4th St E | 144  | 1/24/2012 | 12:52 | 1     | Living Room | B   | B   | Wall                 | Drywall   | Intact  | White   | Neg     | 0    | 0    | 0     | -0.25    | 2.66  | 1    | GBN |
| 767 4th St E | 144  | 1/24/2012 | 12:52 | 1     | Living Room | B   | B   | Wall                 | Wood      | Intact  | White   | Neg     | 0    | 0    | 0     | -0.16    | 2.88  | 1    | GBN |
| 767 4th St E | 145  | 1/24/2012 | 12:53 | 1     | Living Room | C   | C   | Wall                 | Wood      | Intact  | White   | POS     | 10.1 | 10.1 | 10.1  | 2.25     | 2.81  | GBN  |     |
| 767 4th St E | 146  | 1/24/2012 | 12:54 | 1     | Living Room | C   | C   | Door Casing          | Wood      | Intact  | White   | POS     | 9.5  | 10.1 | 9.5   | 2.25     | 3.78  | GBN  |     |
| 767 4th St E | 147  | 1/24/2012 | 12:54 | 1     | Living Room | C   | C   | Door Jamb            | Wood      | Intact  | White   | POS     | 0.03 | 0.03 | 0.28  | 2.88     | 1.18  | GBN  |     |
| 767 4th St E | 148  | 1/24/2012 | 12:55 | 1     | Living Room | C   | C   | Radiator             | Metal     | Poor    | Brown   | Neg     | 0    | 0    | 0     | -0.17    | 2.67  | 1    | GBN |
| 767 4th St E | 149  | 1/24/2012 | 12:56 | 1     | Living Room | D   | D   | Baseboard            | Wood      | Poor    | White   | Neg     | 0    | 0    | 0     | -0.33    | 4.51  | 1    | GBN |
| 767 4th St E | 149  | 1/24/2012 | 12:56 | 1     | Living Room | D   | D   | Wall                 | Plaster   | Poor    | White   | Neg     | 0.01 | 0.01 | -0.11 | 5.13     | 2.31  | GBN  |     |
| 767 4th St E | 150  | 1/24/2012 | 12:57 | 1     | Living Room | D   | D   | Wall                 | Plaster   | Poor    | White   | Neg     | 0.03 | 0.03 | -0.21 | 2.66     | 1     | GBN  |     |
| 767 4th St E | 151  | 1/24/2012 | 12:58 | 1     | Living Room | D   | D   | Ceiling              | Wood      | Poor    | Varnish | Neg     | 0    | 0    | 0     | 0.16     | 4.31  | 1.31 | GBN |
| 767 4th St E | 152  | 1/24/2012 | 13:00 | 1     | Living Room | A   | A   | Floor                | Wood      | Poor    | White   | Neg     | 0    | 0    | 0     | -0.29    | 4.31  | 1    | GBN |
| 767 4th St E | 153  | 1/24/2012 | 13:12 | 1     | Dining      | A   | A   | Wall                 | Wood      | Poor    | White   | Neg     | 0    | 0    | 0     | -0.29    | 4.31  | 1    | GBN |
| 767 4th St E | 154  | 1/24/2012 | 13:12 | 1     | Dining      | A   | A   | Pipe                 | Metal     | Poor    | White   | POS     | 8.9  | 10.1 | 8.9   | 5.12     | 3.35  | GBN  |     |
| 767 4th St E | 155  | 1/24/2012 | 13:14 | 1     | Dining      | A   | A   | Baseboard            | Wood      | Poor    | White   | Neg     | 0    | 0    | 0     | -0.25    | 2.67  | 1    | GBN |
| 767 4th St E | 156  | 1/24/2012 | 13:15 | 1     | Dining      | B   | B   | Baseboard            | Wood      | Poor    | White   | Neg     | 0    | 0    | 0     | -0.25    | 2.67  | 1    | GBN |
| 767 4th St E | 157  | 1/24/2012 | 13:16 | 1     | Dining      | B   | B   | Baseboard            | Wood      | Poor    | White   | POS     | 28.7 | 10.1 | 28.7  | 2.06     | 6.49  | GBN  |     |
| 767 4th St E | 158  | 1/24/2012 | 13:16 | 1     | Dining      | B   | B   | Wall                 | Wood      | Poor    | White   | Neg     | 0    | 0    | 0     | -0.63    | 3.49  | 1    | GBN |
| 767 4th St E | 159  | 1/24/2012 | 13:17 | 1     | Dining      | B   | B   | Window Well          | Wood      | Poor    | White   | POS     | 22.9 | 9.1  | 22.9  | 2.04     | 8.78  | GBN  |     |
| 767 4th St E | 160  | 1/24/2012 | 13:17 | 1     | Dining      | B   | B   | Window Casing        | Wood      | Poor    | White   | POS     | 15   | 10.1 | 15    | 2.26     | 4.45  | GBN  |     |
| 767 4th St E | 161  | 1/24/2012 | 13:19 | 1     | Dining      | B   | B   | Blinds               | Vinyl     | Poor    | White   | Neg     | 0    | 0    | 0     | -0.9     | 2.87  | 1    | GBN |
| 767 4th St E | 162  | 1/24/2012 | 13:20 | 1     | Dining      | B   | B   | Radiator             | Metal     | Poor    | Brown   | Neg     | 0.1  | 0.1  | -0.1  | 3.09     | 2.82  | GBN  |     |
| 767 4th St E | 163  | 1/24/2012 | 13:21 | 1     | Dining      | B   | B   | Chair rail           | Wood      | Poor    | White   | POS     | 18.6 | 10.1 | 18.6  | 2.06     | 10    | GBN  |     |
| 767 4th St E | 164  | 1/24/2012 | 13:21 | 1     | Dining      | C   | C   | Wall                 | Wood      | Poor    | White   | Neg     | 0    | 0    | 0     | -0.55    | 3.51  | 1    | GBN |
| 767 4th St E | 165  | 1/24/2012 | 13:22 | 1     | Dining      | C   | C   | Door Casing          | Wood      | Poor    | White   | POS     | 13.4 | 10.1 | 13.4  | 3.7      | 6.76  | GBN  |     |
| 767 4th St E | 166  | 1/24/2012 | 13:22 | 1     | Dining      | C   | C   | Door Jamb            | Wood      | Poor    | White   | POS     | 19   | 2.1  | 19    | 2.45     | 10    | GBN  |     |
| 767 4th St E | 167  | 1/24/2012 | 13:23 | 1     | Dining      | D   | D   | Door                 | Wood      | Poor    | Natural | Neg     | 0    | 0    | 0     | -0.89    | 2.46  | 1    | GBN |
| 767 4th St E | 168  | 1/24/2012 | 13:23 | 1     | Dining      | D   | D   | Door Casing          | Wood      | Poor    | White   | Neg     | 0    | 0    | 0     | 0.14     | 2.67  | 1    | GBN |

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| Site          | XREF | Date/Time       | Floor | Room         | RM | Side | Component          | Substrate | Condition | Color    | Results | PbC   | PbE  | PbK   | Dir | Ion   | Depth | INSP |
|---------------|------|-----------------|-------|--------------|----|------|--------------------|-----------|-----------|----------|---------|-------|------|-------|-----|-------|-------|------|
| 767 4th St. E | 169  | 1/24/2012 13:24 | 1     | Dining       | D  |      | Wall               | Plaster   | Poor      | Orange   | Neg     | 0.07  | 0.07 | -0.22 |     | 4.09  | 5.09  | GBN  |
| 767 4th St. E | 170  | 1/24/2012 13:27 | 1     | Dining       |    |      | Ceiling            | Plaster   | Poor      | Orange   | Neg     | 0     | 0    | -0.05 |     | 3.9   | 1     | GBN  |
| 767 4th St. E | 171  | 1/24/2012 13:31 | 1     | Dining       |    |      | Floor              | Wood      | Poor      | Paneling | Neg     | -0.17 | 0.5  | -0.17 |     | 4.1   | 8.07  | GBN  |
| 767 4th St. E | 172  | 1/24/2012 13:35 | 1     | Kitchen      | A  |      | Wall               | Plaster   | Poor      | White    | Neg     | 0     | 0    | -1.08 |     | 4.51  | 1     | GBN  |
| 767 4th St. E | 173  | 1/24/2012 13:36 | 1     | Kitchen      | A  |      | Chair rail         | Wood      | Poor      | White    | POS     | 12.9  | 0.05 | 12.9  |     | 2.47  | 6.99  | GBN  |
| 767 4th St. E | 174  | 1/24/2012 13:37 | 1     | Kitchen      | A  |      | Wainscoat          | Wood      | Poor      | White    | POS     | 3.1   | 0.5  | 3.1   |     | 4.31  | 10    | GBN  |
| 767 4th St. E | 175  | 1/24/2012 13:38 | 1     | Kitchen      | A  |      | Cabinet            | Wood      | Poor      | Natural  | Neg     | 0.02  | 0.02 | -0.04 |     | 2.88  | 3.7   | GBN  |
| 767 4th St. E | 176  | 1/24/2012 13:39 | 1     | Kitchen      | A  |      | Cabinet Face       | Wood      | Poor      | Natural  | Neg     | 0     | 0    | -0.53 |     | 2.67  | 1     | GBN  |
| 767 4th St. E | 177  | 1/24/2012 13:39 | 1     | Kitchen      | A  |      | Cabinet Door       | Wood      | Poor      | Natural  | Neg     | 0     | 0    | -0.38 |     | 2.68  | 1     | GBN  |
| 767 4th St. E | 178  | 1/24/2012 13:40 | 1     | Kitchen      | B  |      | Wall               | Plaster   | Poor      | White    | Neg     | 0     | 0    | -0.64 |     | 3.9   | 1.05  | GBN  |
| 767 4th St. E | 179  | 1/24/2012 13:40 | 1     | Kitchen      | B  |      | Window Jamb        | Wood      | Poor      | White    | POS     | 5.4   | 3.9  | 5.4   |     | 2.67  | 10    | GBN  |
| 767 4th St. E | 180  | 1/24/2012 13:41 | 1     | Kitchen      | B  |      | Window Sash        | Wood      | Poor      | White    | POS     | 3.5   | 1.6  | 3.5   |     | 3.9   | 10    | GBN  |
| 767 4th St. E | 181  | 1/24/2012 13:42 | 1     | Kitchen      | C  |      | Door Casing        | Wood      | Poor      | White    | POS     | 9.3   | 1    | 9.3   |     | 1.85  | 10    | GBN  |
| 767 4th St. E | 182  | 1/24/2012 13:42 | 1     | Kitchen      | C  |      | Door Casing        | Wood      | Poor      | White    | POS     | 8.2   | 0.9  | 8.2   |     | 2.46  | 10    | GBN  |
| 767 4th St. E | 183  | 1/24/2012 13:43 | 1     | Kitchen      | C  |      | Door               | Metal     | Poor      | White    | Neg     | 0     | 0    | -0.41 |     | 2.67  | 1     | GBN  |
| 767 4th St. E | 184  | 1/24/2012 13:44 | 1     | Kitchen      | C  |      | Baseboard          | Vinyl     | Poor      | Beige    | Null    | 0     | 0    | 1.7   |     | 2.25  | 1     | GBN  |
| 767 4th St. E | 185  | 1/24/2012 13:44 | 1     | Kitchen      | C  |      | Baseboard          | Vinyl     | Poor      | Beige    | POS     | 1.9   | 0    | 1.9   |     | 6.35  | 1.11  | GBN  |
| 767 4th St. E | 186  | 1/24/2012 13:45 | 1     | Kitchen      | C  |      | Wall               | Plaster   | Poor      | White    | POS     | 2.9   | 0.6  | 2.9   |     | 4.92  | 10    | GBN  |
| 767 4th St. E | 187  | 1/24/2012 13:45 | 1     | Kitchen      | D  |      | Wall               | Plaster   | Poor      | White    | Neg     | 0.08  | 0.08 | -0.26 |     | 4.31  | 6.37  | GBN  |
| 767 4th St. E | 188  | 1/24/2012 13:47 | 1     | Kitchen      | D  |      | Door Casing        | Wood      | Poor      | White    | Neg     | 0     | 0    | 0.05  |     | 2.66  | 1     | GBN  |
| 767 4th St. E | 189  | 1/24/2012 13:50 | 1     | Kitchen      | D  |      | Closet wall        | Plaster   | Poor      | White    | Neg     | 0.4   | 0.4  | -0.33 |     | 3.27  | 4.43  | GBN  |
| 767 4th St. E | 190  | 1/24/2012 13:50 | 1     | Kitchen      | D  |      | Shelf              | Plaster   | Poor      | White    | Neg     | 0.02  | 0.02 | 0.04  |     | 2.66  | 2.54  | GBN  |
| 767 4th St. E | 191  | 1/24/2012 13:51 | 1     | Kitchen      | D  |      | Support            | Plaster   | Poor      | White    | POS     | 4.9   | 5.7  | 4.9   |     | 2.86  | 7.25  | GBN  |
| 767 4th St. E | 192  | 1/24/2012 13:52 | 1     | Kitchen      | D  |      | Countertop         | Wood      | Poor      | White    | Neg     | 0     | 0    | 0.01  |     | 2.88  | 1     | GBN  |
| 767 4th St. E | 193  | 1/24/2012 13:53 | 1     | Kitchen      | D  |      | Cabinet Face       | Wood      | Poor      | White    | POS     | 7     | 2.4  | 7     |     | 2.67  | 10    | GBN  |
| 767 4th St. E | 194  | 1/24/2012 13:54 | 1     | Kitchen      | D  |      | Cabinet Door       | Wood      | Poor      | White    | POS     | 6.8   | 3.2  | 6.8   |     | 2.47  | 10    | GBN  |
| 767 4th St. E | 195  | 1/24/2012 13:57 | 1     | Kitchen      | D  |      | Cabinet floor      | Wood      | Poor      | White    | Neg     | 0.07  | 0.07 | -0.15 |     | 3.08  | 2.59  | GBN  |
| 767 4th St. E | 196  | 1/24/2012 13:57 | 1     | Kitchen      | D  |      | Pipe               | Metal     | Poor      | White    | Neg     | 0.01  | 0.01 | 0.09  |     | 3.07  | 1.06  | GBN  |
| 767 4th St. E | 197  | 1/24/2012 13:58 | 1     | Kitchen      | D  |      | Closet ceiling     | Wood      | Poor      | White    | Neg     | 0     | 0    | -0.26 |     | 3.07  | 1     | GBN  |
| 767 4th St. E | 198  | 1/24/2012 13:59 | 1     | Kitchen      | D  |      | Closet floor       | Vinyl     | Poor      | White    | Neg     | 0     | 0    | -0.15 |     | 4.89  | 1     | GBN  |
| 767 4th St. E | 199  | 1/24/2012 14:00 | 1     | Kitchen      | D  |      | Closet door casing | Wood      | Poor      | White    | POS     | 8.8   | 7.7  | 8.8   |     | 5.11  | 7.93  | GBN  |
| 767 4th St. E | 200  | 1/24/2012 14:01 | 1     | Kitchen      | D  |      | Closet door jamb   | Wood      | Poor      | White    | POS     | 5.7   | 7.7  | 5.7   |     | 3.08  | 9.81  | GBN  |
| 767 4th St. E | 201  | 1/24/2012 14:02 | 1     | Kitchen      | D  |      | Crownmolding       | Wood      | Poor      | White    | Neg     | 0     | 0    | 0.5   |     | 2.67  | 1     | GBN  |
| 767 4th St. E | 202  | 1/24/2012 14:03 | 1     | Kitchen      | D  |      | Ceiling            | Drywall   | Intact    | White    | Neg     | 0     | 0    | -0.16 |     | 3.07  | 1     | GBN  |
| 767 4th St. E | 203  | 1/24/2012 14:04 | 1     | Kitchen      | D  |      | Floor              | Vinyl     | Intact    | Bone     | Neg     | 0     | 0    | 0.4   |     | 2.88  | 1     | GBN  |
| 767 4th St. E | 204  | 1/24/2012 14:07 |       |              |    |      | Calibration        |           |           |          | POS     | 1.1   | 1.1  | -0.02 |     | 20.48 | 1.12  | GBN  |
| 767 4th St. E | 205  | 1/24/2012 14:09 |       |              |    |      | Calibration        |           |           |          | POS     | 1.2   | 1.2  | -0.24 |     | 20.88 | 1.13  | GBN  |
| 767 4th St. E | 206  | 1/24/2012 14:10 |       |              |    |      | Calibration        |           |           |          | POS     | 1     | 1    | 0.05  |     | 20.46 | 1.06  | GBN  |
| 767 4th St. E | 207  | 1/24/2012 14:27 | 1     | Utility room | A  |      | Siding             | Wood      | Fair      | Bone     | POS     | 32.3  | 10.1 | 32.3  |     | 2.46  | 2.11  | GBN  |
| 767 4th St. E | 208  | 1/24/2012 14:28 | 1     | Utility room | A  |      | Conduit            | Metal     | Fair      | Bone     | Neg     | 0.09  | 0.09 | 0.7   |     | 2.67  | 6.18  | GBN  |
| 767 4th St. E | 209  | 1/24/2012 14:29 | 1     | Utility room | A  |      | Door Casing        | Wood      | Fair      | Bone     | POS     | 16.5  | 10.1 | 16.5  |     | 2.27  | 3.97  | GBN  |
| 767 4th St. E | 210  | 1/24/2012 14:29 | 1     | Utility room | A  |      | Threshold          | Wood      | Fair      | Bone     | POS     | 5.6   | 6.3  | 5.6   |     | 4.5   | 7.29  | GBN  |
| 767 4th St. E | 211  | 1/24/2012 14:31 | 1     | Utility room | A  |      | Stair Tread        | Wood      | Fair      | Red      | Null    | 0.9   | 0.9  | 1.3   |     | 10.67 | 1.82  | GBN  |

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| Site         | CREW | Date            | Room | Room         | Substrate  | Component         | Color | Results | POC   | PHK  | Director | Depth |
|--------------|------|-----------------|------|--------------|------------|-------------------|-------|---------|-------|------|----------|-------|
| 767 4th St E | 212  | 1/24/2012 14:31 | 1    | Utility room | Wood       | Stair Tread       | Red   | POS     | 1.6   | 1.9  | 4.92     | 1.63  |
| 767 4th St E | 213  | 1/24/2012 14:32 | 1    | Utility room | Wood       | Stair Riser       | Red   | POS     | 10    | 6.6  | 2.66     | 3.42  |
| 767 4th St E | 214  | 1/24/2012 14:33 | 1    | Utility room | Drywall    | Wall              | Bone  | Neg     | 0     | 0    | 4.71     | 1     |
| 767 4th St E | 215  | 1/24/2012 14:33 | 1    | Utility room | Metal      | Door              | Bone  | Neg     | 0     | 0    | 3.09     | 1     |
| 767 4th St E | 216  | 1/24/2012 14:34 | 1    | Utility room | Wood       | Door Casing       | Bone  | Neg     | 0.02  | 0.02 | 2.67     | 3.77  |
| 767 4th St E | 217  | 1/24/2012 14:35 | 1    | Utility room | Wood       | Beam              | Bone  | POS     | 19.3  | 10.1 | 2.26     | 2.66  |
| 767 4th St E | 218  | 1/24/2012 14:36 | 1    | Utility room | Wood       | Trim              | Bone  | Neg     | 0.02  | 0.02 | 2.67     | 1.43  |
| 767 4th St E | 219  | 1/24/2012 14:38 | 1    | Utility room | Wood       | Column            | Bone  | POS     | 22    | 10.1 | 2.05     | 2.31  |
| 767 4th St E | 220  | 1/24/2012 14:39 | 1    | Utility room | Drywall    | Wall              | Bone  | Neg     | 0     | 0    | 4.49     | 1     |
| 767 4th St E | 221  | 1/24/2012 14:40 | 1    | Utility room | Wood       | Wall              | Bone  | POS     | 26.8  | 10.1 | 2.87     | 2.23  |
| 767 4th St E | 222  | 1/24/2012 14:40 | 1    | Utility room | Metal      | Siding            | Grey  | Neg     | 0     | 0    | 2.87     | 1     |
| 767 4th St E | 223  | 1/24/2012 14:41 | 1    | Utility room | Wood       | Service Panel     | Bone  | POS     | 26.5  | 10.1 | 4.91     | 2.36  |
| 767 4th St E | 224  | 1/24/2012 14:42 | 1    | Utility room | Wood       | Ceiling           | Red   | POS     | 5.8   | 6.3  | 2.66     | 2.04  |
| 767 4th St E | 225  | 1/24/2012 14:44 | 1    | Bedroom 2    | Wood       | Floor             | White | Neg     | 0.01  | 0.01 | 3.07     | 2.19  |
| 767 4th St E | 226  | 1/24/2012 14:46 | 1    | Bedroom 2    | Wood       | Wall              | White | Neg     | 0     | 0    | 3.68     | 1     |
| 767 4th St E | 227  | 1/24/2012 14:47 | 1    | Bedroom 2    | Wood       | Closet wall       | White | Neg     | 0     | 0    | 2.66     | 1.24  |
| 767 4th St E | 228  | 1/24/2012 14:48 | 1    | Bedroom 2    | Wood       | Closet support    | White | Neg     | 0     | 0    | 1.43     | 1     |
| 767 4th St E | 229  | 1/24/2012 14:48 | 1    | Bedroom 2    | Wood       | Closet shelf      | White | Neg     | 0     | 0    | 2.67     | 1     |
| 767 4th St E | 230  | 1/24/2012 14:49 | 1    | Bedroom 2    | Wood       | Closet shelf      | White | Neg     | 0.01  | 0.01 | 2.87     | 2.58  |
| 767 4th St E | 231  | 1/24/2012 14:50 | 1    | Bedroom 2    | Wood       | Closet jamb       | White | Neg     | 0     | 0    | 4.93     | 1     |
| 767 4th St E | 232  | 1/24/2012 14:51 | 1    | Bedroom 2    | Wood       | Wall              | White | Neg     | 0.3   | 0.3  | 4.1      | 6.32  |
| 767 4th St E | 233  | 1/24/2012 14:52 | 1    | Bedroom 2    | Metal      | Radiator          | White | Neg     | 0.8   | 0.8  | 9.61     | 10    |
| 767 4th St E | 234  | 1/24/2012 14:54 | 1    | Kitchen      | Metal      | Radiator          | White | Null    | 1.3   | 1.3  | 31.96    | 9.92  |
| 767 4th St E | 235  | 1/24/2012 14:55 | 1    | Kitchen      | Metal      | Radiator          | White | Null    | 1.2   | 1.2  | 7.36     | 8.16  |
| 767 4th St E | 236  | 1/24/2012 14:56 | 1    | Kitchen      | Metal      | Radiator          | White | Null    | 1.5   | 1.5  | 25.41    | 10    |
| 767 4th St E | 237  | 1/24/2012 14:58 | 1    | Kitchen      | Metal      | Radiator          | White | Null    | 0.9   | 0.9  | 30.96    | 10    |
| 767 4th St E | 238  | 1/24/2012 14:59 | 1    | Kitchen      | Metal      | Radiator          | White | Neg     | 0.02  | 0.02 | 2.86     | 1.53  |
| 767 4th St E | 239  | 1/24/2012 15:00 | 1    | Bedroom 2    | Metal      | Pipe              | White | Neg     | 0.01  | 0.01 | 2.66     | 1.95  |
| 767 4th St E | 240  | 1/24/2012 15:01 | 1    | Bedroom 2    | Wood       | Door Casing       | White | Neg     | 0     | 0    | 2.68     | 1     |
| 767 4th St E | 241  | 1/24/2012 15:02 | 1    | Bedroom 2    | Wood       | Baseboard         | White | Neg     | 0     | 0    | 5.32     | 1     |
| 767 4th St E | 242  | 1/24/2012 15:02 | 1    | Bedroom 2    | Wood       | Wall              | White | Neg     | 0     | 0    | 5.32     | 1     |
| 767 4th St E | 243  | 1/24/2012 15:03 | 1    | Bedroom 2    | Wood       | Window Sash       | White | POS     | 8     | 5.5  | 2.67     | 7.32  |
| 767 4th St E | 244  | 1/24/2012 15:04 | 1    | Bedroom 2    | Wood       | Window Sill       | White | Neg     | 0.02  | 0.02 | 2.67     | 2.78  |
| 767 4th St E | 245  | 1/24/2012 15:05 | 1    | Bedroom 2    | Wood       | Wall              | White | Neg     | 0     | 0    | 3.46     | 1     |
| 767 4th St E | 246  | 1/24/2012 15:06 | 1    | Bedroom 2    | Vinyl      | Baseboard         | White | Neg     | 0.02  | 0.02 | 3.29     | 4.55  |
| 767 4th St E | 247  | 1/24/2012 15:06 | 1    | Bedroom 2    | Drywall    | Ceiling           | White | Neg     | 0     | 0    | 2.66     | 1     |
| 767 4th St E | 248  | 1/24/2012 15:08 | 1    | Bedroom 2    | Pressboard | Floor             | Tan   | Neg     | -0.39 | 0.18 | 3.08     | 10    |
| 767 4th St E | 249  | 1/24/2012 15:11 | 1    | Bathroom 1   | Wood       | Med cabinet shelf | White | Neg     | 0     | 0    | 2.68     | 1     |
| 767 4th St E | 250  | 1/24/2012 15:12 | 1    | Bathroom 1   | Wood       | Med cabinet face  | White | Neg     | 0     | 0    | 2.88     | 1     |
| 767 4th St E | 251  | 1/24/2012 15:12 | 1    | Bathroom 1   | Wood       | Med cabinet door  | White | Neg     | 0     | 0    | 1.44     | 1     |
| 767 4th St E | 252  | 1/24/2012 15:13 | 1    | Bathroom 1   | Wood       | Shelf             | White | Neg     | 0     | 0    | 4.52     | 1     |
| 767 4th St E | 253  | 1/24/2012 15:14 | 1    | Bathroom 1   | Wood       | Cabinet           | White | Neg     | 0     | 0    | 2.87     | 1.08  |
| 767 4th St E | 254  | 1/24/2012 15:14 | 1    | Bathroom 1   | Wood       | Cabinet Door      | White | Neg     | 0     | 0    | 2.66     | 1     |
| 767 4th St E | 254  | 1/24/2012 15:14 | 1    | Bathroom 1   | Wood       | Cabinet Shelf     | White | Neg     | 0     | 0    | 2.87     | 1     |

All Phase Companies  
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| Site          | XRF # | Date/Time       | Room | Run        | Side | Component        | Substrate | Condition | Color   | Results | PbC   | PbK  | Duration | Depth | msp  |
|---------------|-------|-----------------|------|------------|------|------------------|-----------|-----------|---------|---------|-------|------|----------|-------|------|
| 767 4th St. E | 255   | 1/24/2012 15:15 | 1    | Bathroom 1 | A    | Wall             | Drywall   | Intact    | Lime    | Neg     | 0     | 0    | -0.4     | 2.86  | 1    |
| 767 4th St. E | 256   | 1/24/2012 15:16 | 1    | Bathroom 1 | B    | Wall             | Drywall   | Intact    | White   | Neg     | 0     | 0    | -0.46    | 4.09  | 1    |
| 767 4th St. E | 257   | 1/24/2012 15:17 | 1    | Bathroom 1 | B    | Tub              | Metal     | Intact    | White   | Neg     | 0     | 0    | -0.09    | 5.15  | 1    |
| 767 4th St. E | 258   | 1/24/2012 15:17 | 1    | Bathroom 1 | B    | Tub Surround     | Plastic   | Intact    | Bone    | Neg     | 0.01  | 0.01 | -0.7     | 2.86  | 3.7  |
| 767 4th St. E | 259   | 1/24/2012 15:18 | 1    | Bathroom 1 | B    | Wall             | Drywall   | Intact    | Lime    | Neg     | 0     | 0    | -0.29    | 2.67  | 1    |
| 767 4th St. E | 260   | 1/24/2012 15:18 | 1    | Bathroom 1 | C    | Wall             | Drywall   | Intact    | Lime    | Neg     | 0     | 0    | 0.03     | 2.86  | 1    |
| 767 4th St. E | 261   | 1/24/2012 15:19 | 1    | Bathroom 1 | D    | Wall             | Drywall   | Intact    | Lime    | Neg     | 0     | 0    | -0.06    | 2.87  | 1    |
| 767 4th St. E | 262   | 1/24/2012 15:20 | 1    | Bathroom 1 | D    | Window/Jamb      | Wood      | Intact    | Lime    | POS     | 10.2  | 8    | 10.2     | 2.27  | 8.07 |
| 767 4th St. E | 263   | 1/24/2012 15:20 | 1    | Bathroom 1 | D    | Window/Sash      | Wood      | Intact    | Bone    | POS     | 9.3   | 2.9  | 9.3      | 1.85  | 10   |
| 767 4th St. E | 264   | 1/24/2012 15:21 | 1    | Bathroom 1 | D    | Baseboard        | Vinyl     | Intact    | Beige   | Neg     | 0     | 0    | -0.91    | 3.49  | 1    |
| 767 4th St. E | 265   | 1/24/2012 15:22 | 1    | Bathroom 1 | D    | Baseboard heat   | Metal     | Intact    | Bone    | Neg     | 0     | 0    | 0.3      | 2.88  | 1    |
| 767 4th St. E | 266   | 1/24/2012 15:22 | 1    | Bathroom 1 | D    | Ceiling          | Drywall   | Intact    | Lime    | Neg     | 0     | 0    | -0.06    | 2.87  | 1    |
| 767 4th St. E | 267   | 1/24/2012 15:23 | 1    | Bathroom 1 | D    | Floor            | Vinyl     | Intact    | Bone    | Neg     | 0     | 0    | -0.68    | 3.49  | 1    |
| 767 4th St. E | 268   | 1/24/2012 15:33 | 1    | Bedroom 3  | A    | Wall             | Plaster   | Intact    | White   | Neg     | 0     | 0    | -0.24    | 3.5   | 1    |
| 767 4th St. E | 269   | 1/24/2012 15:34 | 1    | Bedroom 3  | A    | Door/Casing      | Wood      | Intact    | White   | POS     | 19    | 10.1 | 19       | 2.05  | 7.6  |
| 767 4th St. E | 270   | 1/24/2012 15:34 | 1    | Bedroom 3  | A    | Door             | Wood      | Intact    | White   | POS     | 18.4  | 10.1 | 18.4     | 2.05  | 5.19 |
| 767 4th St. E | 271   | 1/24/2012 15:36 | 1    | Bedroom 3  | A    | Closet wall      | Plaster   | Intact    | White   | Neg     | 0.7   | 0.7  | -0.36    | 14.53 | 3.76 |
| 767 4th St. E | 272   | 1/24/2012 15:36 | 1    | Bedroom 3  | A    | Closet shelf     | Wood      | Intact    | White   | POS     | 4.9   | 4.9  | 5.6      | 2.46  | 2.7  |
| 767 4th St. E | 273   | 1/24/2012 15:37 | 1    | Bedroom 3  | A    | Closet support   | Wood      | Intact    | White   | Neg     | 0.5   | 0.5  | 0.6      | 3.89  | 2.74 |
| 767 4th St. E | 274   | 1/24/2012 15:38 | 1    | Bedroom 3  | A    | Closet baseboard | Wood      | Intact    | White   | Neg     | 0.6   | 0.6  | 0.5      | 5.14  | 2.54 |
| 767 4th St. E | 275   | 1/24/2012 15:39 | 1    | Bedroom 3  | A    | Closet door trim | Wood      | Intact    | White   | POS     | 1.3   | 1.3  | 1.6      | 5.55  | 2.36 |
| 767 4th St. E | 276   | 1/24/2012 15:39 | 1    | Bedroom 3  | A    | Closet door jamb | Wood      | Intact    | White   | POS     | 7.3   | 7.6  | 7.3      | 2.05  | 2.14 |
| 767 4th St. E | 277   | 1/24/2012 15:40 | 1    | Bedroom 3  | A    | Door Casing      | Wood      | Intact    | White   | Neg     | 0     | 0    | 0.16     | 2.67  | 1    |
| 767 4th St. E | 278   | 1/24/2012 15:41 | 1    | Bedroom 3  | B    | Baseboard        | Wood      | Fair      | White   | Neg     | 0     | 0    | 0.02     | 2.46  | 1    |
| 767 4th St. E | 279   | 1/24/2012 15:42 | 1    | Bedroom 3  | B    | Wall             | Wood      | Fair      | White   | Neg     | 0     | 0    | -0.42    | 3.49  | 1    |
| 767 4th St. E | 280   | 1/24/2012 15:42 | 1    | Bedroom 3  | C    | Wall             | Wood      | Fair      | White   | Neg     | -0.37 | 0.11 | -0.37    | 4.3   | 9.56 |
| 767 4th St. E | 281   | 1/24/2012 15:43 | 1    | Bedroom 3  | C    | Baseboard        | Wood      | Fair      | White   | POS     | 18.2  | 10.1 | 18.2     | 2.26  | 3.92 |
| 767 4th St. E | 282   | 1/24/2012 15:44 | 1    | Bedroom 3  | C    | Radiator         | Metal     | Fair      | Gold    | Neg     | 0.08  | 0.08 | 0.11     | 2.87  | 1.46 |
| 767 4th St. E | 283   | 1/24/2012 15:48 | 1    | Bedroom 3  | D    | Window Skirt     | Wood      | Fair      | White   | POS     | 17.6  | 10.1 | 17.6     | 2.05  | 5.07 |
| 767 4th St. E | 284   | 1/24/2012 15:48 | 1    | Bedroom 3  | D    | Window Sash      | Wood      | Fair      | White   | POS     | 27.5  | 10.1 | 27.5     | 2.26  | 4.9  |
| 767 4th St. E | 285   | 1/24/2012 15:49 | 1    | Bedroom 3  | D    | Wall             | Plaster   | Fair      | White   | Neg     | 0.03  | 0.03 | -0.62    | 6.55  | 7.63 |
| 767 4th St. E | 286   | 1/24/2012 15:50 | 1    | Bedroom 3  | D    | Ceiling          | Plaster   | Fair      | White   | Neg     | 0     | 0    | -0.07    | 4.3   | 1    |
| 767 4th St. E | 287   | 1/24/2012 15:53 | 1    | Bedroom 3  | D    | Floor            | Wood      | Fair      | Varnish | Neg     | 0.13  | 0.13 | -0.3     | 2.87  | 5.95 |
| 767 4th St. E | 288   | 1/24/2012 16:00 | 2    | Stairway   | A    | Wall             | Plaster   | Fair      | White   | Neg     | 0.01  | 0.01 | -0.77    | 4.12  | 3.47 |
| 767 4th St. E | 289   | 1/24/2012 16:00 | 2    | Stairway   | A    | Transom sash     | Wood      | Fair      | Brown   | POS     | 10.3  | 10.1 | 10.8     | 2.46  | 1.62 |
| 767 4th St. E | 290   | 1/24/2012 16:01 | 2    | Stairway   | A    | Transom trim     | Wood      | Fair      | Brown   | POS     | 12    | 10.1 | 12       | 3.49  | 1.62 |
| 767 4th St. E | 291   | 1/24/2012 16:01 | 2    | Stairway   | A    | Door Casing      | Wood      | Fair      | Brown   | POS     | 7.7   | 9.6  | 7.7      | 2.07  | 1.62 |
| 767 4th St. E | 292   | 1/24/2012 16:02 | 2    | Stairway   | B    | Crownmolding     | Wood      | Fair      | Brown   | Neg     | 0.05  | 0.05 | 0.07     | 2.66  | 4.68 |
| 767 4th St. E | 293   | 1/24/2012 16:03 | 2    | Stairway   | B    | Wall             | Wood      | Fair      | Brown   | Neg     | 0.13  | 0.13 | -1.16    | 2.68  | 1.76 |
| 767 4th St. E | 294   | 1/24/2012 16:04 | 2    | Stairway   | B    | Toeboard         | Wood      | Fair      | Brown   | POS     | 8.8   | 9.6  | 8.8      | 2.26  | 1.58 |
| 767 4th St. E | 295   | 1/24/2012 16:05 | 2    | Stairway   | B    | Newel Post       | Wood      | Fair      | Brown   | Neg     | 0.14  | 0.14 | -0.19    | 2.88  | 1.07 |
| 767 4th St. E | 296   | 1/24/2012 16:05 | 2    | Stairway   | B    | Stair Skirt      | Wood      | Fair      | Brown   | POS     | 9.4   | 10.1 | 9.4      | 2.46  | 1.63 |
| 767 4th St. E | 297   | 1/24/2012 16:06 | 2    | Stairway   | B    | Baluster         | Wood      | Fair      | Brown   | Neg     | 0.06  | 0.06 | 0.17     | 3.28  | 1    |

All Phase Companies  
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| Site          | Xref | Date      | Floor | Room | Side        | Component | Substrate          | Condition | Color | Results | Ph   | Pbk   | Stratio | Depth |      |      |     |
|---------------|------|-----------|-------|------|-------------|-----------|--------------------|-----------|-------|---------|------|-------|---------|-------|------|------|-----|
| 767 4th St. E | 298  | 1/24/2012 | 16:07 | 2    | Stairway    | B         | Banister           | Wood      | Fair  | Brown   | Neg  | 0     | 0       | -0.87 | 5.12 | 1.09 | GBN |
| 767 4th St. E | 298  | 1/24/2012 | 16:07 | 2    | Stairway    | B         | Railing            | Wood      | Fair  | Brown   | Neg  | 0.07  | 0.07    | 0.14  | 2.86 | 1.01 | GBN |
| 767 4th St. E | 299  | 1/24/2012 | 16:07 | 2    | Stairway    | B         | Cornice            | Wood      | Fair  | Brown   | Neg  | 0.19  | 0.19    | 0.14  | 2.66 | 1.63 | GBN |
| 767 4th St. E | 300  | 1/24/2012 | 16:09 | 2    | Stairway    | B         | Wall               | Wood      | Fair  | Brown   | Neg  | 0.19  | 0.19    | 0.03  | 2.66 | 2.38 | GBN |
| 767 4th St. E | 301  | 1/24/2012 | 16:09 | 2    | Stairway    | A         | Wall               | Wood      | Fair  | Brown   | Neg  | 0.06  | 0.06    | -0.81 | 2.66 | 1.02 | GBN |
| 767 4th St. E | 302  | 1/24/2012 | 16:10 | 2    | Stairway    | A         | Closet wall        | Plaster   | Fair  | Bone    | Neg  | 0.09  | 0.09    | -0.99 | 3.08 | 2.1  | GBN |
| 767 4th St. E | 303  | 1/24/2012 | 16:11 | 2    | Stairway    | A         | Closet shelf       | Plaster   | Fair  | Bone    | Neg  | 0     | 0       | -0.93 | 2.89 | 1    | GBN |
| 767 4th St. E | 304  | 1/24/2012 | 16:12 | 2    | Stairway    | A         | Closet support     | Wood      | Fair  | Bone    | Neg  | 0.01  | 0.01    | -0.21 | 2.87 | 2.55 | GBN |
| 767 4th St. E | 305  | 1/24/2012 | 16:13 | 2    | Stairway    | A         | Closet door casing | Wood      | Fair  | Bone    | Neg  | 0.06  | 0.06    | 0.12  | 2.66 | 1.39 | GBN |
| 767 4th St. E | 306  | 1/24/2012 | 16:14 | 2    | Stairway    | A         | Closet door        | Wood      | Fair  | Brown   | Neg  | 0.06  | 0.06    | 0.12  | 2.66 | 1.39 | GBN |
| 767 4th St. E | 307  | 1/24/2012 | 16:15 | 2    | Stairway    | A         | Door               | Wood      | Fair  | Brown   | POS  | 11.5  | 10.1    | 11.6  | 2.05 | 1.57 | GBN |
| 767 4th St. E | 308  | 1/24/2012 | 16:15 | 2    | Stairway    | C         | Door Jamb          | Wood      | Fair  | Brown   | POS  | 9.5   | 8.6     | 9.9   | 2.26 | 1.46 | GBN |
| 767 4th St. E | 309  | 1/24/2012 | 16:16 | 2    | Stairway    | C         | Window Casing      | Wood      | Fair  | Brown   | POS  | 11.7  | 10.1    | 11.7  | 3.68 | 1.77 | GBN |
| 767 4th St. E | 310  | 1/24/2012 | 16:16 | 2    | Stairway    | D         | Window Sash        | Wood      | Fair  | Brown   | POS  | 13    | 10.1    | 13    | 2.05 | 1.85 | GBN |
| 767 4th St. E | 311  | 1/24/2012 | 16:17 | 2    | Stairway    | D         | Baseboard          | Wood      | Fair  | Brown   | Neg  | 0.09  | 0.09    | -0.64 | 2.68 | 1.12 | GBN |
| 767 4th St. E | 312  | 1/24/2012 | 16:17 | 2    | Stairway    | D         | Stair Tread        | Wood      | Fair  | Brown   | POS  | 9.2   | 9.5     | 9.2   | 2.87 | 2.05 | GBN |
| 767 4th St. E | 313  | 1/24/2012 | 16:18 | 2    | Stairway    | D         | Stair Riser        | Wood      | Fair  | Brown   | POS  | 9.8   | 9.5     | 9.8   | 2.47 | 2.25 | GBN |
| 767 4th St. E | 314  | 1/24/2012 | 16:18 | 2    | Stairway    | D         | Ceiling            | Plaster   | Fair  | White   | Null | 0     | 0       | -0.61 | 1.84 | 1    | GBN |
| 767 4th St. E | 315  | 1/24/2012 | 16:19 | 2    | Stairway    |           | Ceiling            | Plaster   | Fair  | White   | Neg  | 0.01  | 0.01    | -0.6  | 3.48 | 3.29 | GBN |
| 767 4th St. E | 316  | 1/24/2012 | 16:20 | 2    | Stairway    |           | Floor              | Vinyl     | Fair  | Tan     | Neg  | 0.03  | 0.03    | -0.35 | 2.65 | 3.05 | GBN |
| 767 4th St. E | 317  | 1/24/2012 | 16:20 | 2    | Stairway    |           | Wall               | Plaster   | Fair  | White   | Neg  | 0     | 0       | -0.02 | 2.67 | 1    | GBN |
| 767 4th St. E | 318  | 1/24/2012 | 16:25 | 2    | Bedroom 1   | A         | Baseboard heat     | Metal     | Fair  | White   | Neg  | 0     | 0       | -0.32 | 3.07 | 1    | GBN |
| 767 4th St. E | 319  | 1/24/2012 | 16:26 | 2    | Bedroom 1   | A         | Baseboard          | Wood      | Fair  | White   | POS  | 4.1   | 0.6     | 4.1   | 2.88 | 10   | GBN |
| 767 4th St. E | 320  | 1/24/2012 | 16:26 | 2    | Bedroom 1   | A         | Window Sill        | Wood      | Fair  | White   | POS  | 9.4   | 0.3     | 9.4   | 2.46 | 10   | GBN |
| 767 4th St. E | 321  | 1/24/2012 | 16:27 | 2    | Bedroom 1   | A         | Window Sash        | Wood      | Fair  | White   | Neg  | 0.03  | 0.03    | 0.1   | 2.87 | 4.07 | GBN |
| 767 4th St. E | 322  | 1/24/2012 | 16:28 | 2    | Bedroom 1   | A         | Window Casing      | Vinyl     | Fair  | White   | Neg  | 0     | 0       | -0.72 | 4.31 | 1    | GBN |
| 767 4th St. E | 323  | 1/24/2012 | 16:29 | 2    | Bedroom 1   | A         | Crownmolding       | Wood      | Fair  | White   | Neg  | -0.12 | 0.01    | -0.12 | 4.5  | 2.38 | GBN |
| 767 4th St. E | 324  | 1/24/2012 | 16:30 | 2    | Bedroom 1   | A         | Wall               | Wood      | Fair  | Brown   | Neg  | 0     | 0       | -0.35 | 2.67 | 1    | GBN |
| 767 4th St. E | 325  | 1/24/2012 | 16:30 | 2    | Bedroom 1   | B         | Wall               | Wood      | Fair  | Brown   | Neg  | 0     | 0       | -0.13 | 2.87 | 1    | GBN |
| 767 4th St. E | 326  | 1/24/2012 | 16:30 | 2    | Bedroom 1   | C         | Wall               | Wood      | Fair  | White   | Neg  | 0     | 0       | -0.21 | 4.31 | 1    | GBN |
| 767 4th St. E | 327  | 1/24/2012 | 16:31 | 2    | Bedroom 1   | C         | Door Casing        | Wood      | Fair  | White   | Neg  | 0.01  | 0.01    | -0.4  | 2.66 | 2.93 | GBN |
| 767 4th St. E | 328  | 1/24/2012 | 16:32 | 2    | Bedroom 1   | C         | Door               | Wood      | Fair  | Brown   | Neg  | 0     | 0       | -0.31 | 2.67 | 1    | GBN |
| 767 4th St. E | 329  | 1/24/2012 | 16:32 | 2    | Bedroom 1   | D         | Wall               | Plaster   | Fair  | White   | Neg  | 0     | 0       | -0.85 | 2.05 | 1.18 | GBN |
| 767 4th St. E | 330  | 1/24/2012 | 16:33 | 2    | Bedroom 1   |           | Ceiling            | Plaster   | Fair  | White   | Neg  | 0.02  | 0.02    | -0.63 | 3.49 | 4.21 | GBN |
| 767 4th St. E | 331  | 1/24/2012 | 16:33 | 2    | Bedroom 1   |           | Floor              | Wood      | Poor  | Varnish | Neg  | 0.01  | 0.01    | -0.31 | 2.89 | 1.3  | GBN |
| 767 4th St. E | 332  | 1/24/2012 | 16:35 | 2    | Bedroom 1   |           | Wall               | Drywall   | Fair  | White   | Neg  | 0.02  | 0.02    | -0.19 | 2.87 | 4.06 | GBN |
| 767 4th St. E | 333  | 1/24/2012 | 16:38 | 2    | Living Room | A         | Door Casing        | Wood      | Fair  | White   | Neg  | 0     | 0       | -0.17 | 2.68 | 1    | GBN |
| 767 4th St. E | 334  | 1/24/2012 | 16:38 | 2    | Living Room | A         | Door Jamb          | Wood      | Fair  | White   | Neg  | 0     | 0       | 0.3   | 2.66 | 1    | GBN |
| 767 4th St. E | 335  | 1/24/2012 | 16:38 | 2    | Living Room | A         | Baseboard          | Wood      | Fair  | Brown   | Neg  | 0     | 0       | -0.2  | 4.1  | 1    | GBN |
| 767 4th St. E | 336  | 1/24/2012 | 16:39 | 2    | Living Room | A         | Baseboard heat     | Metal     | Fair  | White   | Null | 0     | 0       | -0.15 | 2.68 | 10   | GBN |
| 767 4th St. E | 337  | 1/24/2012 | 16:40 | 2    | Living Room | B         | Window Well        | Wood      | Fair  | White   | POS  | 12.7  | 0.6     | 12.7  | 5.55 | 10   | GBN |
| 767 4th St. E | 338  | 1/24/2012 | 16:41 | 2    | Living Room | B         | Window Sash        | Wood      | Fair  | Brown   | Neg  | 0     | 0       | -0.04 | 2.87 | 1    | GBN |
| 767 4th St. E | 339  | 1/24/2012 | 16:41 | 2    | Living Room | B         | Wall               | Wood      | Fair  | Brown   | Neg  | 0     | 0       | -1.06 | 2.68 | 1    | GBN |
| 767 4th St. E | 340  | 1/24/2012 | 16:42 | 2    | Living Room | B         | Wall               | Wood      | Fair  | Brown   | Neg  | 0     | 0       | -1.06 | 2.68 | 1    | GBN |

All Phase Companies  
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| Sic | Ac        | Date | Room      | Room  | Room | Substrate   | Condition | Color            | Results | PbC    | PbI     | PbK  | Duration | Depth | InsP  |      |      |     |
|-----|-----------|------|-----------|-------|------|-------------|-----------|------------------|---------|--------|---------|------|----------|-------|-------|------|------|-----|
| 767 | 4th St. E | 341  | 1/24/2012 | 16:43 | 2    | Living Room | C         | Wall             | Plaster | Fair   | White   | Neg  | -0.65    | 0.11  | -0.65 | 3.69 | 10   | GBN |
| 767 | 4th St. E | 342  | 1/24/2012 | 16:44 | 2    | Living Room | C         | Baseboard        | Wood    | Fair   | Brown   | Neg  | 0        | 0     | -0.08 | 2.66 | 1    | GBN |
| 767 | 4th St. E | 343  | 1/24/2012 | 16:44 | 2    | Living Room | D         | Wall             | Wood    | Fair   | Brown   | Neg  | 0.01     | 0.01  | -0.64 | 2.88 | 2.49 | GBN |
| 767 | 4th St. E | 344  | 1/24/2012 | 16:45 | 2    | Living Room | D         | Door Casing      | Wood    | Fair   | White   | POS  | 6.3      | 1.5   | 6.3   | 2.86 | 10   | GBN |
| 767 | 4th St. E | 345  | 1/24/2012 | 16:47 | 2    | Living Room | D         | Door             | Wood    | Fair   | Natural | Neg  | 0        | 0     | -0.1  | 2.88 | 1    | GBN |
| 767 | 4th St. E | 346  | 1/24/2012 | 16:48 | 2    | Living Room | D         | Ceiling          | Plaster | Fair   | White   | Neg  | 0.01     | 0.01  | -0.91 | 6.36 | 2.24 | GBN |
| 767 | 4th St. E | 347  | 1/24/2012 | 16:53 | 2    | Living Room | D         | Floor            | Wood    | Fair   | Black   | Neg  | -0.27    | 0.18  | -0.27 | 3.9  | 10   | GBN |
| 767 | 4th St. E | 348  | 1/24/2012 | 16:55 | 2    | Kitchen     | A         | Wall             | Plaster | Poor   | White   | POS  | 15.2     | 0.5   | 15.2  | 5.11 | 10   | GBN |
| 767 | 4th St. E | 349  | 1/24/2012 | 16:56 | 2    | Kitchen     | A         | Stair Tread      | Vinyl   | Fair   | Tan     | Neg  | 0        | 0     | -1.69 | 2.87 | 12   | GBN |
| 767 | 4th St. E | 350  | 1/24/2012 | 16:57 | 2    | Kitchen     | A         | Stair Riser      | Wood    | Fair   | White   | POS  | 7.2      | 0.8   | 7.2   | 2.45 | 10   | GBN |
| 767 | 4th St. E | 351  | 1/24/2012 | 16:58 | 2    | Kitchen     | A         | Door Casing      | Wood    | Fair   | White   | POS  | 8.2      | 1     | 8.2   | 2.46 | 10   | GBN |
| 767 | 4th St. E | 352  | 1/24/2012 | 16:58 | 2    | Kitchen     | A         | Door Jamb        | Wood    | Fair   | White   | POS  | 7.4      | 1.1   | 7.4   | 2.65 | 10   | GBN |
| 767 | 4th St. E | 353  | 1/24/2012 | 16:58 | 2    | Kitchen     | A         | Wall             | Wood    | Fair   | White   | POS  | 3.4      | 0.5   | 3.4   | 3.9  | 7.85 | GBN |
| 767 | 4th St. E | 354  | 1/24/2012 | 16:59 | 2    | Kitchen     | B         | Filler           | Wood    | Fair   | White   | Neg  | 0        | 0     | 0.04  | 2.87 | 1.25 | GBN |
| 767 | 4th St. E | 355  | 1/24/2012 | 17:01 | 2    | Kitchen     | B         | Cabinet Door     | Wood    | Fair   | Natural | Neg  | 0        | 0     | -0.54 | 2.66 | 1    | GBN |
| 767 | 4th St. E | 356  | 1/24/2012 | 17:01 | 2    | Kitchen     | B         | Cabinet Face     | Wood    | Fair   | Natural | Neg  | 0        | 0     | -0.25 | 2.67 | 1    | GBN |
| 767 | 4th St. E | 357  | 1/24/2012 | 17:02 | 2    | Kitchen     | C         | Cabinet Drawer   | Wood    | Fair   | Natural | Neg  | 0        | 0     | -0.45 | 2.66 | 1    | GBN |
| 767 | 4th St. E | 358  | 1/24/2012 | 17:04 | 2    | Kitchen     | C         | Wall             | Wood    | Poor   | White   | POS  | 4        | 0.4   | 4     | 3.27 | 6.71 | GBN |
| 767 | 4th St. E | 359  | 1/24/2012 | 17:04 | 2    | Kitchen     | C         | Window Casing    | Wood    | Fair   | White   | POS  | 8.2      | 1.7   | 8.2   | 2.48 | 10   | GBN |
| 767 | 4th St. E | 360  | 1/24/2012 | 17:05 | 2    | Kitchen     | C         | Window Sash      | Wood    | Fair   | White   | Neg  | 0        | 0     | -0.36 | 2.66 | 1    | GBN |
| 767 | 4th St. E | 361  | 1/24/2012 | 17:06 | 2    | Kitchen     | C         | Baseboard        | Wood    | Fair   | White   | POS  | 10.1     | 1.1   | 10.1  | 5.52 | 10   | GBN |
| 767 | 4th St. E | 362  | 1/24/2012 | 17:07 | 2    | Kitchen     | D         | Door             | Wood    | Fair   | White   | POS  | 12.7     | 3     | 12.7  | 2.26 | 10   | GBN |
| 767 | 4th St. E | 363  | 1/24/2012 | 17:08 | 2    | Kitchen     | D         | Door Casing      | Wood    | Fair   | White   | POS  | 9.1      | 1.6   | 9.1   | 2.67 | 10   | GBN |
| 767 | 4th St. E | 364  | 1/24/2012 | 17:08 | 2    | Kitchen     | D         | Wall             | Wood    | Fair   | White   | Neg  | 0        | 0     | -0.58 | 2.86 | 1    | GBN |
| 767 | 4th St. E | 365  | 1/24/2012 | 17:09 | 2    | Kitchen     | D         | Closet wall      | Plaster | Fair   | White   | Null | 0.4      | 0.4   | -0.12 | 2.46 | 1.9  | GBN |
| 767 | 4th St. E | 366  | 1/24/2012 | 17:09 | 2    | Kitchen     | D         | Closet wall      | Plaster | Fair   | White   | Neg  | 0.4      | 0.4   | -0.08 | 6.55 | 2.27 | GBN |
| 767 | 4th St. E | 367  | 1/24/2012 | 17:10 | 2    | Kitchen     | D         | Closet shelf     | Wood    | Fair   | White   | Neg  | 0.01     | 0.01  | -0.3  | 2.66 | 1    | GBN |
| 767 | 4th St. E | 368  | 1/24/2012 | 17:11 | 2    | Kitchen     | D         | Closet support   | Wood    | Fair   | White   | Neg  | 0        | 0     | 0.03  | 3.09 | 1    | GBN |
| 767 | 4th St. E | 369  | 1/24/2012 | 17:12 | 2    | Kitchen     | D         | Pipe             | Metal   | Fair   | White   | Neg  | 0.3      | 0.3   | -0.15 | 1.43 | 2.26 | GBN |
| 767 | 4th St. E | 370  | 1/24/2012 | 17:12 | 2    | Kitchen     | D         | Closet door      | Metal   | Fair   | White   | POS  | 12.4     | 10.1  | 12.4  | 2.04 | 4.99 | GBN |
| 767 | 4th St. E | 371  | 1/24/2012 | 17:13 | 2    | Kitchen     | D         | Closet door jamb | Wood    | Fair   | White   | Neg  | 0.6      | 0.6   | 0.6   | 3.07 | 2.18 | GBN |
| 767 | 4th St. E | 372  | 1/24/2012 | 17:13 | 2    | Kitchen     | D         | Closet door jamb | Wood    | Fair   | White   | Neg  | 0.5      | 0.5   | 0.29  | 2.87 | 2.05 | GBN |
| 767 | 4th St. E | 373  | 1/24/2012 | 17:15 | 2    | Kitchen     | D         | Ceiling          | Drywall | Fair   | White   | Neg  | 0        | 0     | 0.11  | 5.54 | 1.32 | GBN |
| 767 | 4th St. E | 374  | 1/24/2012 | 17:16 | 2    | Kitchen     | D         | Floor            | Vinyl   | Fair   | Tan     | Neg  | 0        | 0     | -1.47 | 2.87 | 1    | GBN |
| 767 | 4th St. E | 375  | 1/24/2012 | 17:18 | 2    | Bathroom 2  | A         | Wall             | Drywall | Poor   | White   | Neg  | 0        | 0     | 0.03  | 3.29 | 1    | GBN |
| 767 | 4th St. E | 376  | 1/24/2012 | 17:19 | 2    | Bathroom 2  | A         | Med cabinet      | Metal   | Poor   | Yellow  | Neg  | 0        | 0     | 0.1   | 2.68 | 1    | GBN |
| 767 | 4th St. E | 377  | 1/24/2012 | 17:20 | 2    | Bathroom 2  | A         | Cabinet          | Wood    | Poor   | Natural | Neg  | 0        | 0     | -0.67 | 2.66 | 1    | GBN |
| 767 | 4th St. E | 378  | 1/24/2012 | 17:21 | 2    | Bathroom 2  | A         | Cabinet Face     | Wood    | Intact | Natural | Neg  | 0        | 0     | -0.36 | 4.1  | 1    | GBN |
| 767 | 4th St. E | 379  | 1/24/2012 | 17:21 | 2    | Bathroom 2  | A         | Cabinet Door     | Wood    | Intact | Natural | Neg  | 0        | 0     | -0.42 | 4.3  | 1    | GBN |
| 767 | 4th St. E | 380  | 1/24/2012 | 17:22 | 2    | Bathroom 2  | B         | Wall             | Wood    | Intact | White   | Neg  | 0        | 0     | -0.51 | 3.69 | 1.35 | GBN |
| 767 | 4th St. E | 381  | 1/24/2012 | 17:22 | 2    | Bathroom 2  | B         | Door Casing      | Wood    | Intact | White   | POS  | 15.3     | 0.7   | 15.3  | 2.05 | 10   | GBN |
| 767 | 4th St. E | 382  | 1/24/2012 | 17:22 | 2    | Bathroom 2  | B         | Door             | Wood    | Intact | White   | POS  | 11.2     | 1     | 11.2  | 2.26 | 10   | GBN |
| 767 | 4th St. E | 383  | 1/24/2012 | 17:23 | 2    | Bathroom 2  | C         | Baseboard        | Wood    | Intact | White   | Neg  | 0.14     | 0.14  | 0.1   | 2.67 | 1.59 | GBN |

All Phase Companies  
 767 - 4th Street East  
 St. Paul MN

| Site          | XRF | Date      | Fluo  | Room | Room       | Side | Component        | Substrate | Condition | Color | Results | PbC   | PbI  | PbK   | Duration | Depth | USD |
|---------------|-----|-----------|-------|------|------------|------|------------------|-----------|-----------|-------|---------|-------|------|-------|----------|-------|-----|
| 767 4th St. E | 384 | 1/24/2012 | 17:24 | 2    | Bathroom 2 | C    | Wall             | Drywall   | Intact    | White | Neg     | 0     | 0    | -0.31 | 4.1      | 1.15  | GBN |
| 767 4th St. E | 385 | 1/24/2012 | 17:24 | 2    | Bathroom 2 | C    | Window Casing    | Drywall   | Intact    | White | POS     | 11.6  | 2.1  | 11.6  | 2.67     | 10    | GBN |
| 767 4th St. E | 386 | 1/24/2012 | 17:25 | 2    | Bathroom 2 | C    | Window Sash      | Drywall   | Intact    | White | Neg     | 0.02  | 0.02 | -0.13 | 2.86     | 3.39  | GBN |
| 767 4th St. E | 387 | 1/24/2012 | 17:26 | 2    | Bathroom 2 | D    | Tub Surround     | Plastic   | Intact    | White | Neg     | 0     | 0    | 0.4   | 2.66     | 1     | GBN |
| 767 4th St. E | 388 | 1/24/2012 | 17:26 | 2    | Bathroom 2 | D    | Tub              | Metal     | Intact    | White | POS     | 41.7  | 10.1 | 41.7  | 2.05     | 2.08  | GBN |
| 767 4th St. E | 389 | 1/24/2012 | 17:28 | 2    | Bathroom 2 |      | Ceiling          | Drywall   | Fair      | White | Neg     | 0     | 0    | -0.24 | 2.87     | 1     | GBN |
| 767 4th St. E | 390 | 1/24/2012 | 17:29 | 2    | Bathroom 2 |      | Floor            | Vinyl     | Fair      | Beige | Neg     | 0     | 0    | -0.95 | 4.49     | 1     | GBN |
| 767 4th St. E | 391 | 1/24/2012 | 17:33 | 2    | Bedroom 2  | A    | Crownmolding     | Wood      | Intact    | White | Neg     | 0.13  | 0.13 | -0.26 | 2.67     | 5.21  | GBN |
| 767 4th St. E | 392 | 1/24/2012 | 17:33 | 2    | Bedroom 2  | A    | Door Casing      | Wood      | Intact    | White | Neg     | 0     | 0    | -0.44 | 4.09     | 1     | GBN |
| 767 4th St. E | 393 | 1/24/2012 | 17:34 | 2    | Bedroom 2  | A    | Door             | Wood      | Intact    | White | POS     | 18.3  | 10.1 | 18.3  | 2.05     | 9.77  | GBN |
| 767 4th St. E | 394 | 1/24/2012 | 17:35 | 2    | Bedroom 2  | A    | Closet wall      | Plaster   | Intact    | White | Neg     | 0.04  | 0.04 | -0.33 | 3.71     | 3.71  | GBN |
| 767 4th St. E | 395 | 1/24/2012 | 17:36 | 2    | Bedroom 2  | A    | Closet shelf     | Wood      | Intact    | White | Neg     | 0.01  | 0.01 | -0.29 | 2.67     | 2.33  | GBN |
| 767 4th St. E | 396 | 1/24/2012 | 17:36 | 2    | Bedroom 2  | A    | Closet support   | Wood      | Intact    | White | Neg     | 0     | 0    | -0.1  | 2.67     | 1     | GBN |
| 767 4th St. E | 397 | 1/24/2012 | 17:38 | 2    | Bedroom 2  | A    | Closet door stop | Wood      | Intact    | White | Neg     | 0.01  | 0.01 | -0.36 | 2.67     | 1.68  | GBN |
| 767 4th St. E | 398 | 1/24/2012 | 17:38 | 2    | Bedroom 2  | A    | Closet door      | Wood      | Intact    | White | POS     | 12.9  | 10.1 | 12.9  | 2.06     | 2.37  | GBN |
| 767 4th St. E | 399 | 1/24/2012 | 17:39 | 2    | Bedroom 2  | A    | Baseboard        | Wood      | Intact    | Brown | POS     | 6.8   | 1    | 6.8   | 2.88     | 10    | GBN |
| 767 4th St. E | 400 | 1/24/2012 | 17:40 | 2    | Bedroom 2  | A    | Door Casing      | Wood      | Intact    | White | POS     | 5.1   | 1.7  | 5.1   | 4.31     | 10    | GBN |
| 767 4th St. E | 401 | 1/24/2012 | 17:40 | 2    | Bedroom 2  | A    | Door             | Wood      | Intact    | White | POS     | 5     | 1.4  | 5     | 2.87     | 10    | GBN |
| 767 4th St. E | 402 | 1/24/2012 | 17:41 | 2    | Bedroom 2  | A    | Wall             | Wood      | Intact    | Brown | Neg     | -1.25 | 0.02 | -1.25 | 2.88     | 3.45  | GBN |
| 767 4th St. E | 403 | 1/24/2012 | 17:41 | 2    | Bedroom 2  | B    | Wall             | Wood      | Intact    | Brown | Neg     | 0     | 0    | -0.47 | 2.66     | 1.14  | GBN |
| 767 4th St. E | 404 | 1/24/2012 | 17:42 | 2    | Bedroom 2  | B    | Door Casing      | Wood      | Intact    | White | Neg     | 0     | 0    | -0.12 | 2.87     | 1     | GBN |
| 767 4th St. E | 405 | 1/24/2012 | 17:42 | 2    | Bedroom 2  | C    | Baseboard        | Wood      | Intact    | White | Neg     | 0     | 0    | -0.4  | 2.87     | 1     | GBN |
| 767 4th St. E | 406 | 1/24/2012 | 17:43 | 2    | Bedroom 2  | C    | Wall             | Wood      | Intact    | Brown | Neg     | 0     | 0    | -0.35 | 3.08     | 1     | GBN |
| 767 4th St. E | 407 | 1/24/2012 | 17:43 | 2    | Bedroom 2  | D    | Wall             | Wood      | Intact    | Brown | Neg     | 0     | 0    | -1.21 | 3.28     | 1     | GBN |
| 767 4th St. E | 408 | 1/24/2012 | 17:44 | 2    | Bedroom 2  | D    | Window Skirt     | Wood      | Intact    | White | POS     | 4.4   | 2.1  | 4.4   | 2.88     | 10    | GBN |
| 767 4th St. E | 409 | 1/24/2012 | 17:45 | 2    | Bedroom 2  | D    | Window Sash      | Wood      | Intact    | White | POS     | 12    | 1.5  | 12    | 0.83     | 10    | GBN |
| 767 4th St. E | 410 | 1/24/2012 | 17:45 | 2    | Bedroom 2  | D    | Window Sash      | Wood      | Intact    | White | POS     | 12.5  | 1.4  | 12.5  | 6.74     | 10    | GBN |
| 767 4th St. E | 411 | 1/24/2012 | 17:46 | 2    | Bedroom 2  |      | Ceiling          | Drywall   | Intact    | White | Neg     | 0.02  | 0.02 | -0.35 | 3.89     | 4.45  | GBN |
| 767 4th St. E | 412 | 1/24/2012 | 17:49 | 2    | Bedroom 2  |      | Floor            | Wood      | Poor      | Black | Neg     | 0.01  | 0.01 | -0.14 | 2.87     | 1.55  | GBN |
| 767 4th St. E | 413 | 1/24/2012 | 17:55 |      |            |      | Calibration      |           |           |       | POS     | 1.1   | 1.1  | -0.24 | 20.07    | 1.09  | GBN |
| 767 4th St. E | 414 | 1/24/2012 | 17:57 |      |            |      | Calibration      |           |           |       | POS     | 1.1   | 1.1  | -0.27 | 20.26    | 1.11  | GBN |
| 767 4th St. E | 415 | 1/24/2012 | 17:58 |      |            |      | Calibration      |           |           |       | POS     | 1.1   | 1.1  | -0.23 | 20.65    | 1.1   | GBN |

## Description of Column Titles

- Site:** The sequential number of the site (homes or buildings) inspected on a particular day.
- No:** The sequential XRF sample number for a given site.
- XL No/Map:** The sample number recorded on the maps of a particular site.
- Date:** Date that the XRF sample was analyzed.
- Time:** Time of XRF sample analysis.
- Floor:** The sample location floor level (0 = basement, 1 = first floor, 2 = second floor).
- Room:** The specific location where the sample was analyzed on the site. Calibrate is also recorded in this column when appropriate.
- Side:** Side of the room based on sampling methodology as described earlier in this report. The only four sides that can be designated are **A, B, C, and D.**
- Structure:** This refers to the general building component that the test was performed on. It may also include modifications such as: upper, lower, exterior, interior, right, and left.
- Feature:** Specifies additional information about a structure.
- Condition:** Describes whether the surface being tested is **Intact:** good condition; **Fair:** less than 2 square feet of damage to large interior surface, i.e., wall, less than 10 square feet of damage to large exterior surface, i.e., outside walls, or less than 10% damage to small surface areas, i.e., baseboards, trim, etc.; **Poor:** more than 2 square feet of damage on large interior surfaces, more than 10 square feet of damage to large exterior surface areas, or more than 10% damage to small surface areas.
- Substrate:** Refers to the material that the structure was made of, i.e., wood, concrete, drywall, etc.
- Color:** Color of surface tested.
- Result:** The lead concentration in  $\text{mg}/\text{cm}^2$  as determined with L-shell and K-shell X-ray data.
- PbL( $\text{mg}/\text{cm}^2$ ):** The lead concentration as determined with L-shell X-ray data.
- RES:** Results: POS - above action level, NEG - below action level.
- PbK:** The lead concentration in  $\text{mg}/\text{cm}^2$  on the K-shell X-ray data spectrum.
- PbC:** The combined lead concentration in  $\text{mg}/\text{cm}^2$  of the L-shell and K-shell X-ray data spectrum.
- Depth:** This is the index that is a qualitative indication of the depth of the lead in paint. As the number approaches 1, the lead is concentrated close to the top layers of paint. The largest number available for depth index is 10. The greater the number, the more likely interfering elements may have been detected.
- Duration:** The length of the XRF sample analysis in seconds.
- Inspector:** When multiple inspectors are used, this number indicates who sampled at the time indicated.
- Note:** This refers to any notes that were collected during the analysis of the particular sample. Then can be found on the field data sheet titled "Lead-Based Paint Inspection Data Page."

## SAMPLING METHODOLOGY

Buildings were systematically inspected for lead-based paints. The **A** side of the building is the side facing the street. Starting from the **A** side, the other sides are lettered consecutively (**B, C, D**), going clockwise around the building.

Inside the unit, each floor was assigned a number starting with **0** for the basement, **1** for the first floor, and **2** for the second floor.

Some rooms that are unique in the building are named on the inspection report. These would include things like pantry, kitchen, halls, bathrooms, and staircases. If there is more than one of a certain type of named room, then they are numbered (e.g., staircases to basements are numbered staircase 1, while staircases to the second floor are labeled staircase 2). Room numbering starts in the **A-D** corner of the building and continues clockwise from that point.

Within each room of the building, each of the sides of the room are named. The naming of walls in a room, for instance, follows the same pattern as that used on the exterior of the building, namely, the street side of each room is labeled **A**, and then clockwise from that wall, walls are labeled **B, C, D**.

**APPENDIX C**

**LABORATORY RESULTS  
CHAIN-OF-CUSTODY**



**EMSL Analytical, Inc.**  
14375 23rd Avenue North, Minneapolis, Mn 55447

Phone: (763) 449-4922 Fax: (763) 449-4924 Email: [minneapolislab@emsl.com](mailto:minneapolislab@emsl.com)

Attn: **Greg Myers**  
**Midwest Environmental Consulting, L.L.C.**  
**125 Railroad Ave SW**

Customer ID: MIDW56  
Customer PO:  
Received: 01/20/12 10:10 AM  
EMSL Order: 351200364

**Mora, MN 55051**

Fax: (763) 691-0145 Phone: (763) 691-0111

EMSL Proj:

Project: 502/0112K; 676 E 4th St. St. Paul, MN

**Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/17000B)**

| Lab ID:                           | Analyzed  | Area Sampled        | RDL                     | Lead Concentration       | Notes   |
|-----------------------------------|-----------|---------------------|-------------------------|--------------------------|---|
| 0001                              | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | 26 µg/ft <sup>2</sup>    | Site: Front Entry - Side A Floor adj door<br><i>Collected: 1/18/2012</i>        |
| <i>Client Sample 502/0112K-W1</i> |           |                     |                         |                          |   |
| 0002                              | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | 34 µg/ft <sup>2</sup>    | Site: Bed Rm 2, Floor Side C under window<br><i>Collected: 1/18/2012</i>        |
| <i>Client Sample 502/0112K-W2</i> |           |                     |                         |                          |   |
| 0003                              | 1/20/2012 | 36 in <sup>2</sup>  | 1000 µg/ft <sup>2</sup> | 3400 µg/ft <sup>2</sup>  | Site: Bed Rm 2, Side C, Stool<br><i>Collected: 1/18/2012</i>                    |
| <i>Client Sample 502/0112K-W3</i> |           |                     |                         |                          |   |
| 0004                              | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | <10 µg/ft <sup>2</sup>   | Site: Bed Rm 3, Side D, Floor under window<br><i>Collected: 1/18/2012</i>       |
| <i>Client Sample 502/0112K-W4</i> |           |                     |                         |                          |   |
| 0005                              | 1/20/2012 | 36 in <sup>2</sup>  | 2000 µg/ft <sup>2</sup> | 37000 µg/ft <sup>2</sup> | Site: Bed Rm 3, Side D Trough<br><i>Collected: 1/18/2012</i>                    |
| <i>Client Sample 502/0112K-W5</i> |           |                     |                         |                          |   |
| 0006                              | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | 47 µg/ft <sup>2</sup>    | Site: Kitchen, Side C, Floor adj entry door<br><i>Collected: 1/18/2012</i>      |
| <i>Client Sample 502/0112K-W6</i> |           |                     |                         |                          |   |
| 0007                              | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | 30 µg/ft <sup>2</sup>    | Site: Living Rm, Side B, Floor under window left<br><i>Collected: 1/18/2012</i> |
| <i>Client Sample 502/0112K-W7</i> |           |                     |                         |                          |   |
| 0008                              | 1/20/2012 | 36 in <sup>2</sup>  | 40 µg/ft <sup>2</sup>   | 7200 µg/ft <sup>2</sup>  | Site: Living Rm, Side B, Stool<br><i>Collected: 1/18/2012</i>                   |
| <i>Client Sample 502/0112K-W8</i> |           |                     |                         |                          |   |

Initial report from 01/20/2012 16:07:30

Rachel Travis, Laboratory Manager  
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. \* slight modifications to methods applied.

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn AIHA-LAP, LLC ELLAP 163162



# EMSL Analytical, Inc.

14375 23rd Avenue North, Minneapolis, Mn 55447

Phone: (763) 449-4922 Fax: (763) 449-4924 Email: [minneapolislab@emsl.com](mailto:minneapolislab@emsl.com)

Attn: **Greg Myers**  
**Midwest Environmental Consulting, L.L.C.**  
**125 Railroad Ave SW**

Customer ID: MIDW56  
Customer PO:  
Received: 01/20/12 10:10 AM  
EMSL Order: 351200364

**Mora, MN 55051**

Fax: (763) 691-0145 Phone: (763) 691-0111  
Project: 502/0112K; 676 E 4th St. St. Paul, MN

EMSL Proj:

## Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/7000B)

| Lab ID:                            | Analyzed  | Area Sampled        | RDL                     | Lead Concentration       | Notes  |
|------------------------------------|-----------|---------------------|-------------------------|--------------------------|--|
| 0009                               | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | <10 µg/ft <sup>2</sup>   | Site: 2nd Floor Bedroom 1, Side A, Floor, under window r<br>Collected: 1/18/2012 |
| <i>Client Sample 502/0112K-W9</i>  |           |                     |                         |                          |  |
| 0010                               | 1/20/2012 | 36 in <sup>2</sup>  | 40 µg/ft <sup>2</sup>   | 1300 µg/ft <sup>2</sup>  | Site: Bed Rm 1, Side A, Stool Right<br>Collected: 1/18/2012                      |
| <i>Client Sample 502/0112K-W10</i> |           |                     |                         |                          |  |
| 0011                               | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | <10 µg/ft <sup>2</sup>   | Site: Living Room, Side B, Floor under window<br>Collected: 1/18/2012            |
| <i>Client Sample 502/0112K-W11</i> |           |                     |                         |                          |  |
| 0012                               | 1/20/2012 | 36 in <sup>2</sup>  | 40 µg/ft <sup>2</sup>   | 1000 µg/ft <sup>2</sup>  | Site: Living Room, Side B, Stool<br>Collected: 1/18/2012                         |
| <i>Client Sample 502/0112K-W12</i> |           |                     |                         |                          |  |
| 0013                               | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | 38 µg/ft <sup>2</sup>    | Site: Kitchen, Side C, Floor under window<br>Collected: 1/18/2012                |
| <i>Client Sample 502/0112K-W13</i> |           |                     |                         |                          |  |
| 0014                               | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | 150 µg/ft <sup>2</sup>   | Site: Bed Rm 2, Side D, Floor under window<br>Collected: 1/18/2012               |
| <i>Client Sample 502/0112K-W14</i> |           |                     |                         |                          |  |
| 0015                               | 1/20/2012 | 36 in <sup>2</sup>  | 2000 µg/ft <sup>2</sup> | 17000 µg/ft <sup>2</sup> | Site: 2nd Floor Bed Rm 3, Side D Trough<br>Collected: 1/18/2012                  |
| <i>Client Sample 502/0112K-W15</i> |           |                     |                         |                          |  |
| 0016                               | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup>   | 430 µg/ft <sup>2</sup>   | Site: First Floor Stair 1 Entry, Floor, Side A adj entry<br>Collected: 1/18/2012 |
| <i>Client Sample 502/0112K-W16</i> |           |                     |                         |                          |  |

Initial report from 01/20/2012 16:07:30

Rachel Travis, Laboratory Manager  
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. \* slight modifications to methods applied.

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn AHA-LAP, LLC ELLAP 163162



**EMSL Analytical, Inc.**

14375 23rd Avenue North, Minneapolis, Mn 55447

Phone: (763) 449-4922 Fax: (763) 449-4924 Email: [minneapolislab@emsl.com](mailto:minneapolislab@emsl.com)

Attn: **Greg Myers**  
**Midwest Environmental Consulting, L.L.C.**  
**125 Railroad Ave SW**

Customer ID: MIDW56  
Customer PO:  
Received: 01/20/12 10:10 AM  
EMSL Order: 351200364

**Mora, MN 55051**

Fax: (763) 691-0145 Phone: (763) 691-0111  
Project: 502/0112K; 676 E 4th St. St. Paul, MN

EMSL Proj:

**Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/7000B)**

| Lab ID: | Analyzed  | Area Sampled        | RDL                   | Lead Concentration     | Notes  |
|---------|-----------|---------------------|-----------------------|------------------------|--|
| 0017    | 1/20/2012 | 144 in <sup>2</sup> | 10 µg/ft <sup>2</sup> | <10 µg/ft <sup>2</sup> | Site: Rec Rm, Side B, Floor adj window<br>Collected: 1/18/2012 |

*Client Sample* 502/0112K-W17

Initial report from 01/20/2012 16:07:30

Rachel Travis, Laboratory Manager  
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft<sup>2</sup> x area sampled in ft<sup>2</sup>. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. \* slight modifications to methods applied.

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn AIHA-LAP, LLC ELLAP 163162

FAST  
TAT



**Midwest Environmental Consulting, L.L.C.**

125 Railroad Avenue SW • Mora, MN 55051  
763-691-0111 / 320-679-4054  
Fax: 763-691-0145 / 320-679-4442

Client Address:  
Contact:

**CHAIN OF CUSTODY**

364

Project Number: 502/D112 K  
Client: All phase / City of Rural  
Project: 767 E 4th St, St. Anns, MN  
Phone/Fax:

| Sample ID  | Sample Description                    | Collection Date/Time | Matrix (Vol./Area) | Analysis Requested |
|------------|---------------------------------------|----------------------|--------------------|--------------------|
| 502/D112 K | Front Entry, Side A Floor, city door  | 9/18/12              | 1 ft <sup>2</sup>  | As req'd           |
| W2         | Bed Rm 2, Floor, side C window        | 4:15 P               | 1 ft <sup>2</sup>  |                    |
| W3         | Bed Rm 2, Side C, 2 bed               |                      | 2" x 18"           |                    |
| W4         | Bed Rm 2, Side D, Floor window        |                      | 1 ft <sup>2</sup>  |                    |
| W5         | Bed Rm 3, Side A Trough               |                      | 2" x 18"           |                    |
| W6         | Kitchen, Side C, Floor, entry         |                      | 1 ft <sup>2</sup>  |                    |
| W7         | Living Room, Side B, Floor, left      | 4:15 P               | 1 ft <sup>2</sup>  |                    |
| W8         | Living Room, Side B, Stool, window    |                      | 2" x 18"           |                    |
| W9         | Bedroom 1, Side A, Floor, under rug   |                      | 1 ft <sup>2</sup>  |                    |
| W10        | Bed Room, Side A, Stool, right window |                      | 2" x 18"           |                    |
| W11        | Living Room, Side B, Floor, window    |                      | 1 ft <sup>2</sup>  |                    |
| W12        | Living Room, Side B, Stool            | 4:15 P               | 2" x 18"           |                    |
| W13        | Kitchen, Side C, Floor, under window  |                      | 1 ft <sup>2</sup>  |                    |
| W14        | Bedroom 2, Side D, Floor, window      |                      | 1 ft <sup>2</sup>  |                    |
| W15        | Bedroom 2, Side D, Floor, window      |                      | 1 ft <sup>2</sup>  |                    |
| W16        | Bedroom 2, Side D, Floor, window      |                      | 1 ft <sup>2</sup>  |                    |

Delivered by: Greg Gump Date: 9/18/12 Time: 4:15 P

Received by: Latifah Date: 10/12/12 Time: 10:10 AM

Disposition of Samples: only AS PM

Received by: Latifah Date: 10/12/12 Time: 10:10 AM

Notes: Required Field Blank(s) included

Notes: Please analyze @ 24 hour turnaround



# ***AllPhase Companies, Incorporated***

404-A St. Croix Trail North, Lakeland, MN 55043

Phone: 651-436-2930 Fax: 651-436-3918

January 23, 2012

Cynthia Carlson Heins  
Real Estate Manager  
Planning and Economic Development  
Suite 1100, 25 West 4th Street  
Saint Paul, MN 55102

RE: Asbestos Survey  
767 4<sup>th</sup> St. E., St. Paul, MN  
1596-12S-N

Dear Ms. Cynthia Carlson Heins:

AllPhase Companies, Incorporated, (AllPhase) performed an asbestos survey at the above referenced site in connection with a renovation in order to identify Asbestos-Containing Material (ACM), which is a building material that has greater than 1% asbestos. The following report contains the results of the survey performed at the above referenced site.

In summary, 42 samples of building materials were collected and analyzed for asbestos type and amount. Asbestos was detected above 1 percent in **six of the forty-two samples**. These samples only represent building materials that were collected from the referenced building structure.

**One sample was detected with asbestos above 0% and less than 1% asbestos—the adhesive to the basal floor tile of the second-floor kitchen.**

Friable ACM, is defined by the Asbestos NESHAP, as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. (Sec. 61.141)

Nonfriable ACM is any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. EPA also defines two categories of nonfriable ACM, Category I and Category II nonfriable ACM, which are described later in this guidance.

"Regulated Asbestos-Containing Material" (RACM) is (a) friable asbestos material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Refer to the asbestos Laboratory Report and chain of custody for other building materials tested and their locations. The following samples detected the presence of asbestos greater than 1%:

- Category II - Transite siding, base of front of house—20 sf**
- Category I - Floor tile in closet of 1<sup>st</sup> floor NE corner room—20 sf**
- Category I - Floor sheeting in kitchen of 2<sup>nd</sup> floor; this is the top of two layers under the decking for the top two flooring layers—120 sf**

**Category I - Floor tile in kitchen of 2<sup>nd</sup> floor; this is the base of two layers under the decking for the top two flooring layers—120 sf**

**Friable - Pipe insulation (felt) in basement—approx. 220 lf was observed**

**Friable - Pipe joint insulation (mag) in basement**

This survey is an attempt to identify ACM. However, there is no guarantee that all potential ACM was identified. As a rehabilitation, wall interiors were not assessed. If suspect ACM is discovered during the work and is not listed in this or previous limited surveys, work on that portion of the building should cease, the material wetted and covered, and an asbestos inspector brought to the site to sample and submit to a certified laboratory the sample to determine its asbestos content. Pending analytical results, an abatement crew should remove the ACM before work continues.

## INTRODUCTION

The scope of our services was to conduct an asbestos survey, which includes collecting a small portion of the building materials and submitting the sample to a certified laboratory for analysis by PLM. Analysis only assesses the portion of building material collected and submitted.

- A. Collect bulk samples of suspect ACMs for laboratory analysis.
- B. Analyze the collected samples for asbestos content.

Minnesota requires surveys to be performed by a Minnesota Certified Inspector. This survey was conducted by David Jenkin ó Asbestos Inspector #AI8101.

Samples of suspect ACMs were collected by AllPhase by removing a small portion of the suspect material and then placing the individual samples into separate sealed containers.

## DISCLAIMERS

Asbestos surveys do not necessarily succeed in identifying all locations and types of ACM on-site. This is because of the variety of locations and the inconsistency of asbestos occurrence in a given building material. Our survey is based solely upon the building materials that were observed and sampled for analysis. Therefore, if unsampled building materials are encountered during the demolition, they should be assessed on a material-by-material basis. If suspect ACM is observed which has not been listed in our evaluation, it should be collected and evaluated by a certified individual and laboratory, respectively. If there is a potential for that material to be ACM, work should stop until the question of asbestos content and/or abatement is resolved in a manner that protects human health and the environment and abides by regulatory guidelines.

Certain building materials are not considered suspect ACM and are not sampled as part of the survey. These materials include but are not limited to wood, concrete (with exceptions), plastics such as polyethylene, polystyrene and polyvinylchloride, fiberglass, rubber (natural and neopreneô black synthetic), foam insulation, metals and glass.

## METHODOLOGY

Building materials were analyzed by a NVLAP-accredited laboratory, #101768-0. Laboratory analysis was conducted in accordance with Environmental Protection Agency (EPA) guidelines. The examination for the presence and identification of asbestos fibers in bulk samples is performed in the laboratory using cross-polarized light microscopy and dispersion-staining, particle-identification techniques. Analysis was performed in accordance with EPA 600/M4-82-020 and EPA 600/R-93/116 where applicable. This methodology determines the presence of asbestos varieties, which include Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite and

Actinolite.

#### REMARKS

Some of the rules and regulations set by the Environmental Protection Agency (EPA) may apply when the existence of ACMs is confirmed. A complete review of these rules can be found in Part 3 of the Federal Register EPA, 40 CFR Part 61. Summaries of these rules are as follows:

According to §61.145 of NESHAPS, friable ACMs must be removed from the site prior to demolition. This includes materials that were originally non-friable but have become friable that is, Category I & II material due to damage or deterioration for example, floor tile that has significant chipping or cracking. The necessity for the removal of Category I and II material is evaluated on a site-by-site basis.

Disturbing ACM may require that the Minnesota Pollution Control Agency and/or the Minnesota Department of Health be notified prior to activities with asbestos.

The environmental services performed by AllPhase's survey crew and analyst for this project have been conducted in a manner consistent with the degree of care and technical skill exercised by environmental professionals currently practicing in this area under similar budget and time constraints. Recommendations contained in this report represent our professional judgment at the time the project was performed. No other warranty is intended or implied.



David Jenkin, P.G.  
Asbestos Inspector (#AI8101)



CEI Labs  
 107 New Edition Court, Cary, NC 27511  
 Phone: (919) 481-1413 Fax: (919) 481-1442

## LABORATORY REPORT ASBESTOS BULK ANALYSIS

Client: **AllPhase Companies, Inc.**  
 404-A St. Croix Trail, North  
 Lakeland, MN 55043

CEI Lab Code: A12-0526  
 Received: 01-20-12  
 Analyzed: 01-22-12  
 Reported: 01-22-12  
 Analyst: Anna Malmberg

Project: 767 4th St. E.; 1596-12S-N

| CLIENT ID | CEI LAB ID | HOMOGENEITY DESCRIPTION  | % ASBESTOS |     |
|-----------|------------|--|------------|-----|
| Fo-1      | A1242852   | <u>GLAZING</u><br>Heterogeneous, White, Non-fibrous, Bound                         | ND         |     |
|           |            | BIND 100 %   |            |     |
|           |            | PAINT <1 %   |            |     |
| Fo-2      | A1242853   | <u>TRANSITE</u><br>Heterogeneous, Grey, Fibrous, Tightly Bound                     | CHRY 15%   | 15% |
|           |            | CHRY 15% BIND 85 %   |            |     |
| Fo-3      | A1242854A  | <u>PLASTER SKIM COAT W/ WALLPAPER</u><br>Heterogeneous, White, Tan, Fibrous, Bound | ND         |     |
|           |            | PLAS 85 % CELL 10 %  |            |     |
|           |            | PAINT 5 %  |            |     |
|           | A1242854B  | <u>PLASTER BASE COAT</u><br>Homogeneous, Tan, Fibrous, Bound                       | ND         |     |
|           |            | PLAS 100 % CELL <1 %   |            |     |
|           |            | HAIR <1 %  |            |     |
| Fo-4      | A1242855   | <u>WALL TEXT.</u><br>Heterogeneous, White, Non-fibrous, Bound                      | ND         |     |
|           |            | BIND 65 %  |            |     |
|           |            | FOAM 35 %  |            |     |
| Fo-5      | A1242856   | <u>CEIL. TEXT.</u><br>Heterogeneous, White, Non-fibrous, Bound                     | ND         |     |
|           |            | BIND 65 %  |            |     |
|           |            | FOAM 35 %  |            |     |

CEI Labs  
 107 New Edition Court, Cary, NC 27511  
 Phone: 919-481-1413 Fax: : 919-481-1442

Project: 767 4th St. E.; 1596-12S-N

Lab Code: A12-0526

| CLIENT ID | CEI LAB ID | HOMOGENEITY DESCRIPTION  | % ASBESTOS |       |      |      |    |
|-----------|------------|--|------------|-------|------|------|----|
| Fo-6      | A1242857   | <u>CAULKING</u><br>Heterogeneous, Tan, Non-fibrous, Bound              | CAULK      | 100 % | CELL | <1 % | ND |
| Fo-7      | A1242858   | <u>FL. SHTG.</u><br>Heterogeneous, Tan, Non-fibrous, Bound             | VINYL      | 40 %  | CELL | 25 % | ND |
|           |            |  | BIND       | 23 %  | FBGL | 10 % |    |
|           |            |  | MAST       | 2 %   |      |      |    |
| Fo-8      | A1242859   | <u>WALL TEXT.</u><br>Heterogeneous, White, Non-fibrous, Loosely Bound  | BIND       | 65 %  |      |      | ND |
|           |            |  | FOAM       | 35 %  |      |      |    |
| Fo-9      | A1242860A  | <u>FLOOR TILE</u><br>Homogeneous, Off-white, Non-fibrous, Bound        | VINYL      | 100 % |      |      | ND |
|           | A1242860B  | <u>ADHESIVE</u><br>Homogeneous, Clear, Fibrous, Bound                  | MAST       | 98 %  | CELL | 2 %  | ND |
| Fo-10     | A1242861   | <u>FL. SHTG.</u><br>Heterogeneous, Off-white, Grey, Non-fibrous, Bound | VINYL      | 40 %  | CELL | 25 % | ND |
|           |            |  | BIND       | 25 %  | FBGL | 10 % |    |
| Fo-11     | A1242862   | <u>FL. SHTG.</u><br>Heterogeneous, Off-white, Grey, Non-fibrous, Bound | VINYL      | 40 %  | CELL | 25 % | ND |
|           |            |  | BIND       | 25 %  | FBGL | 10 % |    |

CEI Labs  
 107 New Edition Court, Cary, NC 27511  
 Phone: 919-481-1413 Fax: : 919-481-1442

Project: 767 4th St. E.; 1596-12S-N

Lab Code: A12-0526

| CLIENT ID             | CEI LAB ID | HOMOGENEITY DESCRIPTION   | % ASBESTOS |    |
|-----------------------|------------|---|------------|----|
| Fo-12                 | A1242863A  | <u>FLOOR TILE</u><br>Homogeneous, White, Non-fibrous, Bound<br>VINYL 100%                             | ND         |    |
|                       | A1242863B  | <u>ADHESIVE</u><br>Homogeneous, Yellow, Fibrous, Bound<br>MAST 98% CELL 2%                            | ND         |    |
| Fo-13                 | A1242864A  | <u>FL. SHTG</u><br>Heterogeneous, Tan, Grey, Fibrous, Bound<br>VINYL 20% CELL 35%<br>TAR 35% SYNT 10% | ND         |    |
|                       | A1242864B  | <u>FIBERBOARD</u><br>Homogeneous, Brown, Fibrous, Loosely Bound<br>CELL 100%                          | ND         |    |
| Fo-14                 | A1242865A  | <u>FL. MOLDING</u><br>Homogeneous, Grey, Non-fibrous, Bound<br>RUBR 100%                              | ND         |    |
|                       | A1242865B  | <u>ADHESIVE</u><br>Homogeneous, Black, Non-fibrous, Bound<br>MAST 100%                                | ND         |    |
| Fo-15                 | A1242866   | <u>FLOOR TILE</u><br>Homogeneous, White, Blue, Non-fibrous, Bound<br>CHRY 2% VINYL 98%                | CHRY       | 2% |
| Insufficient adhesive |            |   |            |    |

| CLIENT ID | CEI LAB ID | HOMOGENEITY DESCRIPTION   | % ASBESTOS |           |           |     |
|-----------|------------|---|------------|-----------|-----------|-----|
| Fo-16     | A1242867   | <u>SHEETROCK/MUD</u><br>Heterogeneous, Off-white, Tan, Fibrous, Bound | ND         |           |           |     |
|           |            | GYPSUM 70 %   | CELL       | 20 %      |           |     |
|           |            | CACO 5 %  | FBGL       | 5 %       |           |     |
| Fo-17     | A1242868   | <u>PIPE INSUL</u><br>Heterogeneous, Grey, Tan, Fibrous, Bound         | CHRY 65%   | BIND 15 % | CELL 20 % | 65% |
| Fo-18     | A1242869   | <u>PIPE JOINT INSUL</u><br>Heterogeneous, Grey, Fibrous, Bound        | CHRY 55%   | BIND 35 % | CELL 10 % | 55% |
| Fo-19     | A1242870   | <u>FL. SHTG</u><br>Heterogeneous, Tan, Fibrous, Bound                 | ND         |           |           |     |
|           |            | VINYL 40 %  | CELL       | 25 %      |           |     |
|           |            | BIND 25 %   | FBGL       | 10 %      |           |     |
| Fo-20     | A1242871   | <u>PANELING (COVERED)</u><br>Heterogeneous, Tan, Fibrous, Bound       | ND         |           |           |     |
|           |            | BIND 75 %   | CELL       | 25 %      |           |     |
| Fo-21     | A1242872   | <u>FL. SHTG</u><br>Heterogeneous, Brown, Fibrous, Bound               | ND         |           |           |     |
|           |            | BIND 20 %   | CELL       | 60 %      |           |     |
|           |            | MAST <1 %   | SYNT       | 20 %      |           |     |
| Fo-22     | A1242873A  | <u>FL. SHTG</u><br>Heterogeneous, Brown, Fibrous, Bound               | ND         |           |           |     |
|           |            | VINYL 20 %  | CELL       | 35 %      |           |     |
|           |            | TAR 35 %  | SYNT       | 10 %      |           |     |

| CLIENT ID  | CEI LAB ID | HOMOGENEITY DESCRIPTION   | % ASBESTOS |       |      |      |
|------------|------------|---|------------|-------|------|------|
|            | A1242873B  | <u>FL. SHTG.</u><br>Heterogeneous, Grey, Fibrous, Bound           |            |       |      | ND   |
|            |            |   | VINYL      | 20 %  | CELL | 35 % |
|            |            |   | TAR        | 35 %  | SYNT | 10 % |
| Fo-23      | A1242874   | <u>CEIL. TEXT.</u><br>Heterogeneous, White, Tan, Fibrous, Bound   |            |       |      | ND   |
|            |            |   | BIND       | 20 %  | CELL | 35 % |
|            |            |   | PAINT      | 35 %  |      |      |
|            |            |   | GRAV       | 10 %  |      |      |
| Fo-24      | A1242875   | <u>CEIL. TEXT.</u><br>Heterogeneous, White, Tan, Fibrous, Bound   |            |       |      | ND   |
|            |            |   | BIND       | 55 %  |      |      |
|            |            |   | MICA       | 35 %  |      |      |
|            |            |   | PAINT      | 10 %  |      |      |
| Fo-25      | A1242876A  | <u>CEIL. TEXT.</u><br>Heterogeneous, White, Fibrous, Bound        |            |       |      | ND   |
|            |            |   | BIND       | 55 %  |      |      |
|            |            |   | MICA       | 35 %  |      |      |
|            |            |   | PAINT      | 10 %  |      |      |
|            | A1242876B  | <u>PLASTER</u><br>Heterogeneous, Tan, Fibrous, Bound              |            |       |      | ND   |
|            |            |   | PLAS       | 100 % | CELL | <1 % |
|            |            |   |            |       | HAIR | <1 % |
| Fo-26      | A1242877   | <u>FLOOR TILE</u><br>Homogeneous, Off-white, Non-fibrous, Bound   |            |       |      | ND   |
|            |            |   | VINYL      | 100 % |      |      |
| No mastic. |            |   |            |       |      |      |
| Fo-27      | A1242878   | <u>FL. SHTG.</u><br>Heterogeneous, Off-white, Tan, Fibrous, Bound |            |       |      | ND   |
|            |            |   | VINYL      | 40 %  | CELL | 25 % |
|            |            |   | BIND       | 25 %  | FBGL | 10 % |
|            |            |   |            |       | WOLL | <1 % |

| CLIENT ID                  | CEI LAB ID | HOMOGENEITY DESCRIPTION   | % ASBESTOS |     |
|----------------------------|------------|---|------------|-----|
| Fo-28a                     | A1242879A  | <u>FL. SHTG.</u><br>Heterogeneous,<br>Green, Tan, Fibrous, Bound    | CHRY       | 25% |
| Unable to separate mastic. |            | CHRY 25% VINYL 40% CELL 10%<br>BIND 23%<br>MAST 2%                  |            |     |
| Fo-28b                     | A1242880A  | <u>FLOOR TILE</u><br>Homogeneous,<br>Off-white, Red, Fibrous, Bound | CHRY       | 15% |
|                            |            | CHRY 15% VINYL 85%  |            |     |
|                            | A1242880B  | <u>ADHESIVE</u><br>Homogeneous,<br>Black, Fibrous, Bound            | CHRY       | <1% |
|                            |            | CHRY <1% MAST 100% CELL <1%   |            |     |
| Fo-29a                     | A1242881A  | <u>FLOOR TILE</u><br>Homogeneous,<br>Off-white, Non-fibrous, Bound  | ND         |     |
|                            |            | VINYL 100%  |            |     |
|                            | A1242881B  | <u>ADHESIVE</u><br>Homogeneous,<br>Clear, Fibrous, Bound            | ND         |     |
|                            |            | VINYL 100%  |            |     |
| Fo-29b                     | A1242882   | <u>FL. SHTG.</u><br>Heterogeneous,<br>Tan, Fibrous, Non-fibrous,    | ND         |     |
|                            |            | VINYL 40% CELL 25%<br>BIND 25% FBGL 10%                             |            |     |
| Fo-30                      | A1242883   | <u>INSULATION</u><br>Homogeneous,<br>Brown, Fibrous, Loosely Bound  | ND         |     |
|                            |            | DEBR 5% CELL 95%  |            |     |

CEI Labs  
107 New Edtion Court, Cary, NC 27511  
Phone: 919-481-1413 Fax: : 919-481-1442

Project: 767 4th St. E.; 1596-12S-N

Lab Code: A12-0526

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| CLIENT ID | CEI<br>LAB ID | HOMOGENEITY DESCRIPTION  | %<br>ASBESTOS |
|-----------|---------------|--|---------------|
| Fo-31     | A1242884      | <u>WALL TEXTURE</u><br>Heterogeneous, White, Tan, Fibrous, Bound | ND            |
|           |               | PLAS 95 % CELL <1 %  |               |
|           |               | PAINT 5 % HAIR <1 %  |               |

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**The following definitions apply to the abbreviations used in the ASBESTOS BULK ANALYSIS REPORT:**

|                                       |                                   |                   |
|---------------------------------------|-----------------------------------|-------------------|
| CHRY = Chrysotile                     | CELL = Cellulose                  | DEBR = Debris     |
| AMOS = Amosite                        | FBGL = Fibrous Glass              | BIND = Binder     |
| CROC = Crocidolite                    | CACO = Calcium Carbonate          | SILI = Silicates  |
| TREM = Tremolite                      | SYNT = Synthetics                 | GRAV = Gravel     |
| ANTH = Anthophyllite                  | WOLL = Wollastonite               | MAST = Mastic     |
| ACTN = Actinolite                     | CERWL = Ceramic Wool              | PLAS = Plaster    |
| N D = None Detected                   | NTREM = Non-Asbestiform Tremolite | PERL = Perlite    |
| NANTH = Non-Asbestiform Anthophyllite | FBGY = Fibrous Gypsum             | RUBR = Rubber     |
|                                       |                                   | VER = Vermiculite |

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**CLIENT:** AllPhase Companies, Inc.

**PROJECT:** 767 4th St. E.; 1596-12S-N

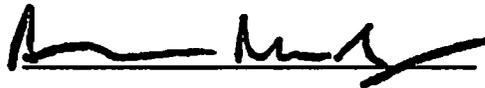
**CEI LAB CODE:** A12-0526

Stereoscopic microscopy and polarized light microscopy coupled with dispersion staining is the analytical technique used for sample identification. The percentage of each component is visually estimated by volume. These results pertain only to the samples analyzed. The samples were analyzed as submitted by the client and may not be representative of the larger material in question. Unless notified in writing to return samples, CEI Labs will discard all bulk samples after 30 days.

Many vinyl floor tiles have been manufactured using greater than 1% asbestos. Often the asbestos was milled to a fiber size below the detection limit of polarized light microscopy. Therefore, a "None Detected" (ND) reading on vinyl floor tile does not necessarily exclude the presence of asbestos. Transmission electron microscopy provides a more conclusive form of analysis for vinyl floor tiles.

It is certified by the signature below that CEI Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for the analysis of asbestos in bulk materials. The accredited test method is EPA / 600 / M4-82 / 020 for the analysis of asbestos in building materials. Procedures described in EPA / 600 / R-93 / 116 have been incorporated where applicable. The detection limit for the method is 0.1% (trace amount). CEI Labs's NVLAP accreditation number is #101768-0. This report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. This report and its contents are only valid when reproduced in full. Dust and soil analyses for asbestos using PLM are not covered under NVLAP accreditation.

**ANALYST**



**REVIEWED BY**



Tianbao Bai, Ph.D.  
Laboratory Director

**End of Report**



**CAROLINA ENVIRONMENTAL, INC.**

107 New Edition Court, Cary, NC 27511  
Tel: 866-481-1412; Fax: 919-481-1442

A12-0526 (33)  
A1242852.A1242884

**CHAIN OF CUSTODY RECORD  
ASBESTOS/LEAD ANALYSIS**

Pg 1 of 4

| Client: AllPhase Companies, Inc.                      |                         | Project Manager: David Jenkin |                 |                 |         |          |                                  |             |            |            |           |   |  |
|---|-------------------------|-------------------------------|-----------------|-----------------|---------|----------|----------------------------------|-------------|------------|------------|-----------|---|--|
| Address: 404-A St. Croix Trl N.<br>Lakeland, MN 55043 |                         | Phone: 651-436-2930           |                 |                 |         |          |                                  |             |            |            |           |   |  |
| E-Mail: allphasecompany@guestoffice.net               |                         | ASBESTOS                      |                 |                 |         |          | LEAD PAINT                       |             |            |            |           | TURN-AROUND TIME<br><small>*Lead results require 48 Hour TAT or longer</small>                                  |  |
| PO #: 767 4 <sup>th</sup> St. E                       |                         | PLM Bulk                      | PLM Point Count | PLM Gravimetric | PCM Air | TEM Bulk | TEM Air                          | Lead Paint* | Lead Wipe* | Lead Soil* | Lead Air* |   | Other Analysis   |
| PROJECT DESCRIPTION                                   | PROJECT CODE            |                               |                 |                 |         |          |                                  |             |            |            |           |   | <input type="checkbox"/> 5 DAYS<br><input type="checkbox"/> 3 DAYS<br><input checked="" type="checkbox"/> 48 HOURS<br><input checked="" type="checkbox"/> 24 HOURS*<br><input type="checkbox"/> 4 HOURS* |
| Exterior, N. side windows                             | Fo-1 Glazing            | X                             |                 |                 |         |          |                                  |             |            |            |           |   |  |
| " , S. side   | 2 Transite siding       |                               |                 |                 |         |          |                                  |             |            |            |           |   |  |
| 1st Fl., S. entry, W. wall                            | 3 Plaster (w/ texture?) |                               |                 |                 |         |          |                                  |             |            |            |           |   |  |
| " , Rm 1  | 4 Wall text.            |                               |                 |                 |         |          |                                  |             |            |            |           |   |  |
| " , Rm 4  | 5 Ceil. text.           |                               |                 |                 |         |          |                                  |             |            |            |           |   |  |
| " , Rm 2 closet                                       | 6 Caulk                 |                               |                 |                 |         |          |                                  |             |            |            |           |   |  |
| " , S. Entry Hall                                     | 7 Fl. shtg              |                               |                 |                 |         |          |                                  |             |            |            |           |   |  |
| " , Rm 6, W. wall                                     | 8 Wall text.            |                               |                 |                 |         |          |                                  |             |            |            |           |   |  |
| " , Bathrm  | 9 F.T. 12"x12"          |                               |                 |                 |         |          |                                  |             |            |            |           |   |  |
| " , Kitchen top layer                                 | 10. Fl. Shtg            |                               |                 |                 |         |          |                                  |             |            |            |           |   |  |
| REMARKS:  |                         |                               |                 |                 |         |          |                                  |             |            |            |           | CLIENT ID#<br>1596-125-N<br><br>Samples will be disposed of 30 days after analysis, unless otherwise requested. |  |
| Relinquished By: David Jenkin                         | Date / Time: 1/18/12    | Received By: Kristy Pruitt    |                 |                 |         |          | Date / Time: JAN 20 2012 12:00PM |             |            |            |           |   |  |
| Relinquished By:                                      | Date / Time:            | Received By:                  |                 |                 |         |          | Date / Time:                     |             |            |            |           |   |  |



**CAROLINA ENVIRONMENTAL, INC.**

107 New Edition Court, Cary, NC 27511  
Tel: 866-481-1412; Fax: 919-481-1442

A12.0526

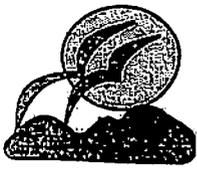
**CHAIN OF CUSTODY RECORD  
ASBESTOS/LEAD ANALYSIS**

Pg 2 of 4

| Client: <i>AllPhase Companies, Inc.</i>  |                              | Project Manager: <i>David Jenkin</i>   |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
|--|------------------------------|--|------|-----------------------------|------------|------------|-------|--------------|-------|---------------|------------------|--|--|--|--|--|------------|--|--|--|--|---------------|------------------|-------|-----------|------------|------|--------|--------|------------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------|------------------------|--|--|--|--|--|--|--|--|--|--|-----------------|--------------------|--|--|--|--|--|--|--|--|--|--|-----------------|-----------------------------|--|--|--|--|--|--|--|--|--|--|------------------------|----------------------------|--|--|--|--|--|--|--|--|--|--|---|---------------------------|--|--|--|--|--|--|--|--|--|--|--------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--------------------|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--|--------------------------------------|------------------------------|--|--|--|--|--|--|--|--|--|--|
| Address: <i>404-A St. Croix Trl N.<br/>Lakeland, MN 55043</i>                  |                              | Phone: <i>651-436-2930</i>   |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| Email: <i>allphasecompany@guestoffice.net</i>                                  |                              | Fax: <i>-3918</i>  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| PO #: <i>767 4<sup>th</sup> St E</i>   |                              | <table border="1"> <thead> <tr> <th colspan="5">ASBESTOS</th> <th colspan="5">LEAD/PAINT</th> <th rowspan="2">Other Analyte</th> <th rowspan="2">TURN-AROUND TIME</th> </tr> <tr> <th>FIBER</th> <th>INHALABLE</th> <th>RESPIRABLE</th> <th>SOIL</th> <th>TEMPIL</th> <th>TEMPAL</th> <th>LEAD/PAINT</th> <th>PAINT</th> <th>PAINT</th> <th>PAINT</th> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td rowspan="10">           *Lead results require 48 Hour TAT or longer.<br/><br/> <input type="checkbox"/> 5 DAYS<br/> <input type="checkbox"/> 3 DAYS<br/> <input checked="" type="checkbox"/> 48 HOURS<br/> <input checked="" type="checkbox"/> 24 HOURS*<br/> <input type="checkbox"/> 4 HOURS*         </td> </tr> <tr> <td><i>1<sup>st</sup> Fl., Pantry under F-10</i></td> <td><i>F0 - 11 Fl. shlg</i></td> <td><input checked="" type="checkbox"/></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>" , Kitchen, small area</i></td> <td><i>12 F.T. 12"x12"</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>" , Rm 7</i></td> <td><i>13 Fl. shlg</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>" , Rm 7</i></td> <td><i>14 Fl. molding + adh</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>" , Rm 7 closet</i></td> <td><i>15 F.T., wht + adh.</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>Basement, E. wall at base of steps</i></td> <td><i>16 Sheetrock comp.</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>" , SW area</i></td> <td><i>17 Pipe insul.</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>" , S. wall</i></td> <td><i>18 Pipe joint insul.</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>2<sup>nd</sup> Fl., S. entry (1<sup>st</sup> Fl.) to 2<sup>nd</sup> Fl.</i></td> <td><i>19 Fl. shlg</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>2<sup>nd</sup> Fl., stairwell</i></td> <td><i>20 Paneling (covered)</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table> |      |                             |            |            |       |              |       |               |                  | ASBESTOS   |  |  |  |  | LEAD/PAINT |  |  |  |  | Other Analyte | TURN-AROUND TIME | FIBER | INHALABLE | RESPIRABLE | SOIL | TEMPIL | TEMPAL | LEAD/PAINT | PAINT | PAINT | PAINT |  |  |  |  |  |  |  |  |  |  |  |  | *Lead results require 48 Hour TAT or longer.<br><br><input type="checkbox"/> 5 DAYS<br><input type="checkbox"/> 3 DAYS<br><input checked="" type="checkbox"/> 48 HOURS<br><input checked="" type="checkbox"/> 24 HOURS*<br><input type="checkbox"/> 4 HOURS* | <i>1<sup>st</sup> Fl., Pantry under F-10</i> | <i>F0 - 11 Fl. shlg</i> | <input checked="" type="checkbox"/> |  |  |  |  |  |  |  |  |  | <i>" , Kitchen, small area</i> | <i>12 F.T. 12"x12"</i> |  |  |  |  |  |  |  |  |  |  | <i>" , Rm 7</i> | <i>13 Fl. shlg</i> |  |  |  |  |  |  |  |  |  |  | <i>" , Rm 7</i> | <i>14 Fl. molding + adh</i> |  |  |  |  |  |  |  |  |  |  | <i>" , Rm 7 closet</i> | <i>15 F.T., wht + adh.</i> |  |  |  |  |  |  |  |  |  |  | <i>Basement, E. wall at base of steps</i> | <i>16 Sheetrock comp.</i> |  |  |  |  |  |  |  |  |  |  | <i>" , SW area</i> | <i>17 Pipe insul.</i> |  |  |  |  |  |  |  |  |  |  | <i>" , S. wall</i> | <i>18 Pipe joint insul.</i> |  |  |  |  |  |  |  |  |  |  | <i>2<sup>nd</sup> Fl., S. entry (1<sup>st</sup> Fl.) to 2<sup>nd</sup> Fl.</i> | <i>19 Fl. shlg</i> |  |  |  |  |  |  |  |  |  |  | <i>2<sup>nd</sup> Fl., stairwell</i> | <i>20 Paneling (covered)</i> |  |  |  |  |  |  |  |  |  |  |
| ASBESTOS   |                              |  |      |                             | LEAD/PAINT |            |       |              |       | Other Analyte | TURN-AROUND TIME |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| FIBER  | INHALABLE                    | RESPIRABLE   | SOIL | TEMPIL                      | TEMPAL     | LEAD/PAINT | PAINT | PAINT        | PAINT |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
|  |                              |  |      |                             |            |            |       |              |       |               |                  | *Lead results require 48 Hour TAT or longer.<br><br><input type="checkbox"/> 5 DAYS<br><input type="checkbox"/> 3 DAYS<br><input checked="" type="checkbox"/> 48 HOURS<br><input checked="" type="checkbox"/> 24 HOURS*<br><input type="checkbox"/> 4 HOURS* |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>1<sup>st</sup> Fl., Pantry under F-10</i>                                   | <i>F0 - 11 Fl. shlg</i>      | <input checked="" type="checkbox"/>  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>" , Kitchen, small area</i>   | <i>12 F.T. 12"x12"</i>       |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>" , Rm 7</i>  | <i>13 Fl. shlg</i>           |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>" , Rm 7</i>  | <i>14 Fl. molding + adh</i>  |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>" , Rm 7 closet</i>   | <i>15 F.T., wht + adh.</i>   |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>Basement, E. wall at base of steps</i>                                      | <i>16 Sheetrock comp.</i>    |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>" , SW area</i>   | <i>17 Pipe insul.</i>        |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>" , S. wall</i>   | <i>18 Pipe joint insul.</i>  |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>2<sup>nd</sup> Fl., S. entry (1<sup>st</sup> Fl.) to 2<sup>nd</sup> Fl.</i> | <i>19 Fl. shlg</i>           |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| <i>2<sup>nd</sup> Fl., stairwell</i>   | <i>20 Paneling (covered)</i> |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| REMARKS:   |                              |  |      |                             |            |            |       |              |       |               |                  |  |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| Relinquished By: <i>David Jenkin</i>   |                              |  |      | Date / Time: <i>1/18/12</i> |            |            |       | Received By: |       |               |                  | Date / Time:   |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |
| Relinquished By:   |                              |  |      | Date / Time:                |            |            |       | Received By: |       |               |                  | Date / Time:   |  |  |  |  |            |  |  |  |  |               |                  |       |           |            |      |        |        |            |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |                                     |  |  |  |  |  |  |  |  |  |                                |                        |  |  |  |  |  |  |  |  |  |  |                 |                    |  |  |  |  |  |  |  |  |  |  |                 |                             |  |  |  |  |  |  |  |  |  |  |                        |                            |  |  |  |  |  |  |  |  |  |  |   |                           |  |  |  |  |  |  |  |  |  |  |                    |                       |  |  |  |  |  |  |  |  |  |  |                    |                             |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |                                      |                              |  |  |  |  |  |  |  |  |  |  |

Samples will be disposed of 30 days after analysis, unless otherwise requested.

CLIENT ID#  
*1596-125-N*



**CAROLINA ENVIRONMENTAL, INC.**

107 New Edition Court, Cary, NC 27511  
 Tel: 866-481-1412; Fax: 919-481-1442

A12.0526

**CHAIN OF CUSTODY RECORD  
 ASBESTOS/LEAD ANALYSIS**

Pg 3 of 4

| Client: <i>AllPhase Companies, Inc.</i>  |                               | Project Manager: <i>David Jenkin</i>  |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
|--|-------------------------------|---|-------|------------|------------|------------|---------|----------|---------|----------------|------------------|-----------------------------|----------------|--|--|--------------|------------|--|--|--|--|----------------|------------------|-------|-------|------|-------|------------|------|--------|---------|----------|------|------|
| Address: <i>404-A St. Croix Trl N.<br/>Lakeland, MN 55043</i>  |                               | Phone: <i>651-436-2930</i>  |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| E-Mail: <i>allphase-company@guestoffice.net</i>  |                               | Fax: <i>-3918</i>   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| PO #: <i>767 4<sup>th</sup> St E</i>   |                               | <table border="1"> <tr> <th colspan="5">ASBESTOS</th> <th colspan="5">LEAD PAINT</th> <th rowspan="2">Other Analysis</th> <th rowspan="2">TURN-AROUND TIME</th> </tr> <tr> <th>FUMES</th> <th>FIBER</th> <th>PM10</th> <th>PM2.5</th> <th>PM10/PM2.5</th> <th>LEAD</th> <th>COPPER</th> <th>CADMIUM</th> <th>CHROMIUM</th> <th>IRON</th> <th>ZINC</th> </tr> </table> |       |            |            |            |         |          |         |                |                  | ASBESTOS                    |                |  |  |              | LEAD PAINT |  |  |  |  | Other Analysis | TURN-AROUND TIME | FUMES | FIBER | PM10 | PM2.5 | PM10/PM2.5 | LEAD | COPPER | CADMIUM | CHROMIUM | IRON | ZINC |
| ASBESTOS   |                               |   |       |            | LEAD PAINT |            |         |          |         | Other Analysis | TURN-AROUND TIME |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| FUMES  | FIBER                         | PM10  | PM2.5 | PM10/PM2.5 | LEAD       | COPPER     | CADMIUM | CHROMIUM | IRON    |                |                  | ZINC                        |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| PROJECT DESCRIPTION  | PROJECT CODE                  | FUMES   | FIBER | PM10       | PM2.5      | PM10/PM2.5 | LEAD    | COPPER   | CADMIUM | CHROMIUM       | IRON             | ZINC                        | Other Analysis | TURN-AROUND TIME   |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>2<sup>nd</sup> Fl., stairwell, ridge at top</i>   | <i>Fo-21 Fl. shig</i>         | X   |       |            |            |            |         |          |         |                |                  |                             |                | <input type="checkbox"/> 5 DAYS<br><input type="checkbox"/> 3 DAYS<br><input checked="" type="checkbox"/> 48 HOURS<br><input checked="" type="checkbox"/> 24 HOURS*<br><input type="checkbox"/> 4 HOURS* |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>" , Closet @ S. end of stairwell hall</i>   | <i>22 Fl. shig</i>            |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>" , Stairwell</i>   | <i>23 Cail. test.</i>         |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>" , S. Rm</i>   | <i>24 " "</i>                 |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>" , E. Rm</i>   | <i>25 " " + plaster</i>       |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>" , N. Rm/kitchen</i>   | <i>26 F.T. 12"x12" top</i>    |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>" , " , under Fo-26</i>   | <i>27 Fl. shig</i>            |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>" " under plywood of Fo-27</i>  | <i>28a Fl. shig (top)</i>     |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>" " "</i>   | <i>b F.T. + adh. (base)</i>   |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <i>" , bath rm/NE Rm</i>   | <i>29a F.T. 12"x12" (top)</i> |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| REMARKS:   |                               |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| <input type="checkbox"/> 5 DAYS<br><input type="checkbox"/> 3 DAYS<br><input checked="" type="checkbox"/> 48 HOURS<br><input checked="" type="checkbox"/> 24 HOURS*<br><input type="checkbox"/> 4 HOURS* |                               |   |       |            |            |            |         |          |         |                |                  |                             |                |  |  |              |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| Relinquished By: <i>David Jenkin</i>   |                               |   |       |            |            |            |         |          |         |                |                  | Date / Time: <i>1/18/12</i> |                | Received By:   |  | Date / Time: |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |
| Relinquished By:   |                               |   |       |            |            |            |         |          |         |                |                  | Date / Time:                |                | Received By:   |  | Date / Time: |            |  |  |  |  |                |                  |       |       |      |       |            |      |        |         |          |      |      |

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Pg 4 of 4

|   |  |                               |  |                                      |         |            |       |  |
|---|--|-------------------------------|--|--------------------------------------|---------|------------|-------|--|
| Client: <i>AllPhase Companies, Inc.</i>   |  |                               |  | Project Manager: <i>David Jenkin</i> |         |            |       |  |
| Address: <i>404-A St. Croix Trl N.<br/>Lakeland, MN 55043</i>   |  |                               |  | Phone: <i>651-436-2930</i>           |         |            |       |  |
| E-Mail: <i>allphasecompany@guestoffice.net</i>  |  |                               |  | Fax: <i>-3918</i>                    |         |            |       |  |
| PO #: <i>767 4<sup>th</sup> St. E.</i>  |  |                               |  | ASBESTOS                             |         | LEAD PAINT |       | TURN-AROUND TIME<br><small>Lead results require 48 Hour Turn Around</small>  |
| PROJECT DESCRIPTION   |  | PROJECT CODE                  |  | FIBER                                | FLY ASH | LEAD       | PAINT |  |
| <i>2<sup>nd</sup> Fl., bathroom</i>   |  | <i>Fo-29b Fl. sltg (base)</i> |  | X                                    |         |            |       | <input type="checkbox"/> 5 DAYS<br><input type="checkbox"/> 3 DAYS<br><input checked="" type="checkbox"/> 48 HOURS<br><input checked="" type="checkbox"/> 24 HOURS*<br><input type="checkbox"/> 4 HOURS* |
| <i>Attic</i>  |  | <i>30 Insul.</i>              |  |                                      |         |            |       |  |
| <i>2<sup>nd</sup> Fl., W. Rm under panelling</i>  |  | <i>31 Wall Test.</i>          |  |                                      |         |            |       |  |
| REMARKS:  |  |                               |  |                                      |         |            |       | CLIENT ID#<br><i>1596-125-N</i>  |
| Relinquished By: <i>David Jenkin</i> Date / Time: <i>1/18/12</i> Received By: _____ Date / Time: _____<br>Relinquished By: _____ Date / Time: _____ Received By: _____ Date / Time: _____ |  |                               |  |                                      |         |            |       | Samples will be disposed of 30 days after analysis, unless otherwise requested.  |

**03/15/12 ACTIVATED CHARCOAL RADON TEST #6102526**

**Radon Test Result: 0.8 ±0.2 pCi/L**

**Test Started 03/07/12 at 10:00 am**

**Test Ended 03/12/12 at 2:00 pm**

Closed house conditions maintained during test.

**Location Basement**



CITY OF ST PAUL HRA  
767 4TH ST  
SAINT PAUL, MN 55102

**INTERPRETING YOUR TEST RESULT**

The US EPA action level for indoor radon is 4.0 pCi/L. The EPA indicates that there is little short-term risk with test results in this range (0.6 to 1.9 pCi/L). However, because radon levels fluctuate daily, as well as seasonally, you may want to retest during another season. Additionally, if you make any structural changes or start to use a lower level of the building more frequently, you should test again.

You may be able to obtain additional information about radon related subjects by calling your **state radon officer at 800-798-9050**. Or call the "Radon Fix-It Line" at 800-644-6999 Monday thru Friday between NOON and 8 pm EST

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This result has been rounded to one-tenth (0.1) of a pCi/L (picoCurie per liter), the most common method of reporting radon in air.

**NEXT...PLEASE...READ**

everything under the heading

**INTERPRETING YOUR TEST RESULT**

**Your health risk**

The primary health risk from long-term exposure to radon is lung cancer. The risk of developing a lung cancer from radon exposure depends both on how much radon is present and how long you are exposed to radon. The higher the radon level or the longer the time of exposure, even if the levels are relatively low, the greater the risk. Exposures up to 4 pCi/L may present some risk of contracting lung cancer to more sensitive occupants, especially children. Recently the US Congress set as a goal the lowering of radon levels in buildings to equal the levels of outside air.

**What is a picoCurie**

For those interested in the numbers, a picoCurie is 0.000,000,000,001 (one-trillionth) of a Curie, an international measurement unit of radioactivity. One pCi/L means that in one liter of air there will be 2.2 radioactive disintegrations each minute. For example, at 4 pCi/L there will be approximately 12,672 radioactive disintegrations in one liter of air, during a 24-hour period.

**Conducting Follow-up Measurements**

USEPA protocol describes two general types of radon measurements: short-term tests conducted from 48 hours up to 90 days, and long-term tests that last from 90 to 365 days. Your first test (initial/screening) should be a short-term 'worst-case' screening to see if there is a potential for high exposure to radon. Screening tests should be conducted under closed-building conditions, in the lowest lived-in area in the house, because the highest concentrations of radon will usually be found in a room closest to the underlying soil. Tests made under these conditions are less likely to miss a house with a potential for high concentrations. On the other hand, if the results of worst-case screening tests are very low, there is a high probability that the average annual concentrations in the house are also low.

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## Conducting Follow-up Measurements

**The higher your initial (screening) tests, the sooner you should conduct follow-up measurements.** The EPA states that you should retest the same location that was tested initially. **For additional or follow-up testing,** make sure at least one test is conducted in the **lowest lived-in level** of the home. Also choose regularly used rooms, such as family rooms, dens, playrooms, or bedrooms. A bedroom on the lower level may be a good choice, because people generally spend the most time in their bedrooms (approximately one-third of the year). If there are children, it may be appropriate to test their rooms or other areas where they spend a lot of time, especially at the lower levels. All short-term follow-up tests **must** be conducted under closed-building conditions. If closed-building conditions cannot be maintained, a long-term measurement conducted under normal living conditions could be used to help estimate average annual exposures.

Tests **should not be conducted** in a kitchen or a bathroom because high humidity, exhaust fans, and other factors can adversely affect the test results. Tests **should not be conducted** in storage areas or laundry rooms, because relatively little time is spent there. Although radon in water may be a contributor to the concentration of airborne radon, radon in air should be **confirmed** before a test for radon in water is performed.

It is recommended that before spending any time or money on radon mitigation, one should conduct multiple (three or more) tests to be certain there is a need. A few more tests will most certainly cost considerably less than any mitigation work.

If follow-up measurements have **confirmed** that the average annual level of radon is equal to or greater than 4 pCi/L, the USEPA recommends that the building or home be mitigated for radon. Consider also that a future buyer is likely to demand that the building pass a radon test before purchasing.

**Variations in Radon Levels:** what can affect your test results and why it may be important to conduct confirmation tests.

When tests are performed in different seasons or under different weather conditions, the initial screening and follow-up tests may vary considerably. Radon levels can vary significantly between seasons, so different values **are to be expected**. Even during normal

weather, indoor radon levels may rise and fall by a factor of two on a daily cycle; for example, from 5 pCi/L to 10 pCi/L in 24 hours. During rapidly changing or stormy weather, the levels may change more dramatically. Because continual changes in radon levels are considered the norm, expose the testing device for as long as is practical, while following the manufacturer's recommendations. This, of course, provides a better overall average of the measurement.

If you are comparing tests, or are averaging a series of tests, bear in mind that any radon test returns only the average of the levels present during a **specific period of time** at the **precise location** of the test. Conditions during a different test period or at a different location in the building are **expected to be different**.

Test results can also vary if the radon test instructions were not carefully followed. A laboratory measuring radon in samples taken outside the lab **must rely on the person conducting the test**. For example, the wrong starting or ending date of a test will significantly affect the calculated result. The location of each radon test can also influence the result. For example, a test placed in the blowing air stream of a fan is likely to collect more radon than it would under normal conditions. Also, three tests conducted in one home, but in three different rooms, **would be expected to have at least slightly different test results**.

Test results from a properly used activated charcoal test will more closely reflect the average radon concentrations over the last three to five days of the test period. This happens because the radon collected by the activated charcoal has a radioactive half-life of only four days. This means, for example, over one-half of the radon collected during the first three days of a seven day test 'died' before the test ended. Seven day exposures of activated charcoal test devices are suggested because this allows the charcoal to equilibrate with its environment, averaging out the peaks and valleys that normally occur in real-life radon levels. Also the aspect of user convenience is considered, because most find it easier to remember to end a test on the same day of the week it was started.

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Limitation of Liability: While we at Air Chek, Inc. make every effort to maintain the highest possible quality control and include several checks and verification steps in our procedures, we make **NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS** with respect to any item furnished, information supplied or services rendered you by Air Chek, Inc. Before any action is taken on the basis of test results given to you by Air Chek, Inc. we recommend that further testing be done. Neither Air Chek, Inc., nor any of our employees or agents, shall be liable under any claim, charge, or demand, whether in contract, tort or otherwise, for any and all losses, costs, charges, claims, demands, fees, expenses, injuries or damages (including without limitation **INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH ARE EXCLUDED**) of any nature or kind arising out of, connected with, resulting from, or sustained as a result of any item furnished, information supplied, or service rendered to you by Air Chek, Inc.

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You can reach us by Fax at (828) 684-8498 or write to Air Chek, Inc., Box 2000, Naples, NC 28760  
**Web Site:** <http://www.radon.com> **Email to:** [info@radon.com](mailto:info@radon.com)

**03/15/12 ACTIVATED CHARCOAL RADON TEST #6102527**

**Radon Test Result: 0.8 ±0.2 pCi/L**

**Test Started 03/07/12 at 10:00 am**

**Test Ended 03/12/12 at 2:00 pm**

Closed house conditions maintained during test.

**Location Basement**



CITY OF ST PAUL HRA  
767 4TH ST  
SAINT PAUL, MN 55102

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NEC Specification  
City of Saint Paul  
Neighborhood Stabilization Program

Address: 767 4<sup>th</sup> St E

Date of Energy Assessment:

Energy Consultant Name: *Steve Youlan*

Phone: 651-221-4462 x124

Please call if you have any questions regarding this specification. All appliance replacements that we are aware of are called out below but any additional appliance replacements must also be ENERGY STAR rated.

| Spec Title   | Specification  | Location / Notes                                   |
|--|--|--|
| Seal Attic Bypasses<br><br>Current Air Leakage = 19,900/22,500 CFM50 | Bypasses shall be defined as any break in the envelope of a house between a heated living space and an unheated area or the outside. Bypass locations include, but are not limited to, the following areas: chimneys, soil stacks, end walls, dropped ceilings, open plumbing walls, beneath kneewalls and around duct work, electrical work and attic access points. Bypasses shall be sealed in such a manner that the movement of air through the bypass is essentially stopped. "Essentially stopped" means that air leakage will not be detected by an infrared scan when the house is pressurized to 30 Pascals. Materials to be used for sealing bypasses depend on the size and location of the bypass and must meet code requirements. These materials include high quality caulks (20-year life span), polyethylene rod stock, foam, sheetrock, sheet metal, extruded polystyrene and densely packed insulation. | Duplex to be converted to single family residence. |
| Open Attic   | All bypasses shall be sealed before insulating in such a manner that the movement of air through the bypass is essentially stopped. Blow insulation to depth indicated on manufacturer's coverage chart, consistently and evenly to R-50. Insulation in the peak attic must be marked with a ruler to measure depth and a sign with the number of bags used and the date of the installation.  |  |
| Insulate Flat Roof   | All bypasses shall be sealed before insulating in such a manner that the movement of air through the bypass is essentially stopped. Blow insulation to depth indicated on manufacturer's coverage chart, consistently and evenly to R-50. If the size of the cavity does not permit, R-50, blow to capacity.   | Rear attic over kitchen, bath and porch.           |
| Insulate above bay window  | Insulate space above bays to capacity. Insulate floor to capacity. Access holes must be patched, plugged and painted as necessary.   |  |

|  |   |   |
|--|---|---|
| Build Dam, insulate and weatherstrip attic hatch door  | Access hatch door to attic shall be insulated to R-40 and insulation dam constructed around opening. Opening shall be weatherstripped to provide a tight seal.  |   |
| Install Additional Attic Ventilation   | Venting shall be placed to minimize its impact on the appearance of the house. Where possible, venting shall be installed so that 50% is located high (roof vents or gable vents) and 50% is located low. All vents shall be screened. Vents cut in roof and/or soffits are to be cut full to proper size. All vents shall be properly installed according to manufacturer's specifications. They shall be correctly flashed and roofing tar applied as necessary to insure a weather-tight seal. Number of vents to be determined by contractor. |   |
| Insulate Walls – Exterior Application<br><br>Remove Vinyl Siding, Drill, Dense Pack, Plug and Replace Siding | Siding shall be removed before drilling access holes. Determine cavities are free of hazards and can support dense packing pressures, locate drilling hazards, control dust when drilling from interior. Completely fill each cavity to a consistent density. Dense pack cellulose to a minimum density of 3.5 lbs/cubic foot or dense pack spider fiberglass per manufacturer's instructions. Siding must be replaced without damage and nailed back with appropriate galvanized nails.  |   |
| Insulate Walls – Interior Application  | Exterior walls insulated from inside the house shall be drilled through to provide access. Completely fill each cavity to a consistent density. Dense pack cellulose to a minimum density of 3.5 lbs/cubic foot or dense pack spider fiberglass per manufacturer's instructions. Holes shall be patched ready for light sanding and painting.   |   |
| Air Seal Rim Joist   | Seal cracks and holes in rim joist using caulk, foam or other air tight materials.  |   |
| Crawlspace   | Install poly on the ground. Crawl space walls shall be insulated by installing 6" (R19) encapsulated fiberglass batts attached permanently and directly against rim joist, band joist and exterior walls extending one foot onto poly ground covering. Alternatively, use spray foam on rim joist, band joist and walls to R-19.  | If not accessible, seal all perimeter gaps from exterior. |
| Install Bathroom Fan   | Install an ENERGY STAR rated two-speed bathroom fan .8 sones or less, with a pre-set low-speed of 10-30 CFM and a high-speed boost capability of 70-110 CFM initiated by a wall switch or motion detector. Vent bathroom fan using rigid duct and insulated with fiberglass and vented out with dampered roof vent.   |   |
| Install Kitchen Fan  | Install an Energy Star rated exhaust fan connected with insulated rigid ductwork into a dampered roof vent.   |   |

|   |  |  |
|---|--|--|
| <p>Install New Heating System:<br/>95% AFUE</p>                         | <p>Remove existing furnace, recycle all metal components and dispose of all other materials in a code legal dump. Install a new ENERGY STAR rated, gas-fired, forced air furnace with a minimum AFUE rating of 95% and ECM Motor with 2" rise above floor. Connect to existing duct work and gas line. New furnace to be vented with PVC piping per manufacturer's specifications. New furnace will have minimum limited warranties of 20 years on heat exchangers; 5 years on parts. Include auto set back thermostat controls, vent pipe &amp; new shut-off valve. Rework cold air return if necessary to ensure easy access, good fit &amp; easy replacement of air filter. An exterior return air filter box shall be installed on one side, both sides or bottom of new furnace. Seal all exposed duct joints with duct mastic. Remove all existing cloth duct tape prior to installing mastic.</p> | <p>Hot water system to be removed.</p> |
| <p>Install New Water Heating System: Power Vented .65 EF or greater</p> | <p>Replace water heater with a power-vented water heater with an EF of .65 or greater. Include pressure &amp; temperature release valve, discharge tube to within 6" of floor and PVC flue to power vent to exterior.</p>  |  |
| <p>Replace Refrigerator with ENERGY STAR model</p>                      | <p>Install ENERGY STAR rated refrigerator sized appropriately for the household. Remove existing refrigerator, recycle all metal components and dispose of all other materials in a code legal dump.</p>   |  |
| <p>CFLs</p>   | <p>Replace incandescent bulbs with ENERGY STAR rated compact fluorescent lights. Install fixtures that meet the lighting needs of the particular area.</p>   |  |

# Home Energy Rating Certificate

767 E. 4th St.  
St. Paul, MN



**1 Star Plus**

## Uniform Energy Rating System

|         |             |         |              |         |              |         |              |         |              |
|---------|-------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|
| 1 Star  | 1 Star Plus | 2 Stars | 2 Stars Plus | 3 Stars | 3 Stars Plus | 4 Stars | 4 Stars Plus | 5 Stars | 5 Stars Plus |
| 500-401 | 400-301     | 300-251 | 250-201      | 200-151 | 150-101      | 100-91  | 90-86        | 85-71   | 70 or Less   |

## Energy Efficient

**HERS Index: 318**

### General Information

Conditioned Area: 2977 sq. ft.  
 Conditioned Volume: 22800 cubic ft.  
 Bedrooms: 4

House Type: Duplex, whole building  
 Foundation: Conditioned basement

### Mechanical Systems Features

Heating: Fuel-fired hydronic distribution, Natural gas, 60.0 AFUE.  
 Water Heating: Conventional, Natural gas, 0.52 EF, 75.0 Gal.

Duct Leakage to Outside: NA  
 Ventilation System: None  
 Programmable Thermostat: Heating: No      Cooling: No

### Building Shell Features

Ceiling Flat: R-11      Exposed Floor: NA  
 Vaulted Ceiling: R-3      Window Type: S W Op (w/St)  
 Above Grade Walls: R-3      **Infiltration:**  
 Foundation Walls: R-1.1      Rate: Htg: 19980 Clg: 19980 CFM50  
 Slab: R-0.0 Edge, R-0.0 Under      Method: Blower door test

### Lights and Appliance Features

Percent Interior Lighting: 10.00      Range/Oven Fuel: Natural gas  
 Percent Exterior Lighting: 0.00      Clothes Dryer Fuel: Natural gas  
 Refrigerator (kWh/yr): 691.00      Clothes Dryer EF: 3.01  
 Dishwasher Energy Factor: 0.46      Ceiling Fan (cfm/Watt): 0.00

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

### REM/Rate - Residential Energy Analysis and Rating Software v12.97

This information does not constitute any warranty of energy cost or savings.  
 © 1985-2012 Architectural Energy Corporation, Boulder, Colorado.

Registry ID:

Rating Number:

Certified Energy Rater:

Rating Date:

Rating Ordered For: City of St. Paul

### Estimated Annual Energy Cost

| Use               | MMBtu | Cost          | Percent     |
|-------------------|-------|---------------|-------------|
| Heating           | 763.0 | \$6874        | 81%         |
| Cooling           | 0     | \$0           | 0%          |
| Hot Water         | 35.3  | \$317         | 4%          |
| Lights/Appliances | 43.8  | \$972         | 11%         |
| Photovoltaics     | -0.0  | \$-0          | -0%         |
| Service Charges   |       | \$359         | 4%          |
| <b>Total</b>      |       | <b>\$8523</b> | <b>100%</b> |

**This home meets or exceeds the minimum criteria for all of the following:**

**TITLE**

**Company**

Address

City, State, Zip

Phone #

Fax #

# Home Energy Rating Certificate

767 E. 4th St.  
St. Paul, MN



**5 Stars**

## Uniform Energy Rating System

|         |             |         |              |         |              |         |              |         |              |
|---------|-------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|
| 1 Star  | 1 Star Plus | 2 Stars | 2 Stars Plus | 3 Stars | 3 Stars Plus | 4 Stars | 4 Stars Plus | 5 Stars | 5 Stars Plus |
| 500-401 | 400-301     | 300-251 | 250-201      | 200-151 | 150-101      | 100-91  | 90-86        | 85-71   | 70 or Less   |

## Energy Efficient

**HERS Index: 84**

### General Information

Conditioned Area: 2977 sq. ft.  
Conditioned Volume: 22800 cubic ft.  
Bedrooms: 4

House Type: Single-family detached  
Foundation: Conditioned basement

### Mechanical Systems Features

Heating: Fuel-fired hydronic distribution, Natural gas, 95.0 AFUE.  
Water Heating: Instant water heater, Natural gas, 0.69 EF, 0.0 Gal.  
Dual-fuel heat pump: Electric/Natural gas, 7.0 HSPF. 16.0 SEER. 95.0 AFUE.  
Duct Leakage to Outside: NA  
Ventilation System: Exhaust Only: 100 cfm, 26.0 watts.  
Programmable Thermostat: Heating: No Cooling: No

### Building Shell Features

Ceiling Flat: R-50, R-44  
Vaulted Ceiling: R-13  
Above Grade Walls: R-13  
Foundation Walls: R-1.1, R-19.0  
Slab: R-0.0 Edge, R-0.0 Under

Exposed Floor: NA  
Window Type: NFRC .35 / .37

**Infiltration:**  
Rate: Htg: 3000 Clg: 3000 CFM50  
Method: Blower door test

### Lights and Appliance Features

Percent Interior Lighting: 10.00  
Percent Exterior Lighting: 0.00  
Refrigerator (kWh/yr): 691.00  
Dishwasher Energy Factor: 0.46

Range/Oven Fuel: Natural gas  
Clothes Dryer Fuel: Natural gas  
Clothes Dryer EF: 3.01  
Ceiling Fan (cfm/Watt): 0.00

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

### REM/Rate - Residential Energy Analysis and Rating Software v12.97

This information does not constitute any warranty of energy cost or savings.  
© 1985-2012 Architectural Energy Corporation, Boulder, Colorado.

Registry ID:

Rating Number:

Certified Energy Rater:

Rating Date:

Rating Ordered For: City of St. Paul

### Estimated Annual Energy Cost

| Use               | MMBtu | Cost          | Percent     |
|-------------------|-------|---------------|-------------|
| Heating           | 141.5 | \$1416        | 54%         |
| Cooling           | 1.9   | \$56          | 2%          |
| Hot Water         | 22.3  | \$201         | 8%          |
| Lights/Appliances | 33.9  | \$778         | 30%         |
| Photovoltaics     | -0.0  | \$-0          | -0%         |
| Service Charges   |       | \$180         | 7%          |
| <b>Total</b>      |       | <b>\$2632</b> | <b>100%</b> |

**This home meets or exceeds the minimum criteria for all of the following:**

**TITLE**

**Company**

Address

City, State, Zip

Phone #

Fax #



CITY OF SAINT PAUL  
Christopher B. Coleman, Mayor

375 Jackson Street, Suite 220  
Saint Paul, Minnesota 55101-1806

Telephone: 651-266-8989  
Facsimile: 651-266-9124  
Web: [www.stpaul.gov/dsi](http://www.stpaul.gov/dsi)

## Code Compliance Report

March 13, 2012

Housing and Redevelopment  
25 W 4th St Ste 1300  
St Paul MN 55102

Re: 767 4th St E  
File#: 09 006419 VB2

Dear Property Owner:

The following is the Code Compliance report you requested on February 13, 2012.

Please be advised that this report is accurate and correct as of the date March 13, 2012. All deficiencies identified by the City after this date must also be corrected and all codes and ordinances must be complied with. This report is valid for 365 days from March 13, 2012. This report may be used in lieu of a Truth in Housing Report required in St Paul Legislative Code 189. This building must be properly secured and the property maintained at all times.

In order to sell or reoccupy this property the following deficiencies must be corrected:

**BUILDING**                      **Inspector: Jim Seeger**                      **Phone: 651-266-9046**

- Insure basement cellar floor is even, is cleanable, and all holes are filled.
- Install handrails (34 inches - 38 inches above each nosing) and guardrails (36 inch minimum) at all stairways, and return hand rail ends into a newel post or wall per attachment.
- Strap or support top of stair stringers for structural stability.
- Repair or Replace any deteriorated window sash, broken glass, sash holders, re-putty, etc as necessary.
- Provide complete storms and screens, in good repair for all door and window openings.
- Provide functional hardware at all doors and windows
- Exit doors shall be capable of being opened from the inside, easily and without the use of a key. Remove all surface bolts.
- Repair or replace damaged doors and frames as necessary, including storm doors.
- Weather seal exterior doors, threshold and weather-stripping.
- Install floor covering in bathroom and kitchen that is impervious to water.
- Repair walls, ceiling and floors throughout, as necessary.
- Provide fire block construction as necessary and seal chases in basement ceiling.
- Air-seal and insulate attic/access door.

Re: 767 4th St E  
March 13, 2012  
Page 2

**BUILDING**                      **Inspector: Jim Seeger**                      **Phone: 651-266-9046**

- Prepare and paint interior and exterior as necessary. Observe necessary abatement procedures (EPA, MPCA and St. Paul Legislative Code, Chapter 34 for additional information) if lead base paint is present.
- Any framing members that required repair or do not meet code (where wall and ceiling covering is removed, members that are over-spanned, over-spaced, not being carried properly, door and window openings that are not adequately supported, etc.) are to be reconstructed in an approved manner.
- Install Smoke Detectors/Carbon Monoxide Detectors per MN Conservation Code and the MN Dept. of Labor and Industry: Install per code where feasible.
- Provide major clean-up of premises.
- Repair siding, soffit, fascia, trim, etc. as necessary.
- Provide proper drainage around house to direct water away from foundation of house.
- Install downspouts and a complete gutter system.
- Install rain leaders to direct drainage away from foundation.
- Replace house roof covering and vents to code.
- Review all applicable codes & policies when replacing windows including egress windows for sleeping rooms.
- Openings in stair risers must be less than 4 inches.
- Properly replace front and driveway retaining walls and remove tree.
- Replace front porch floor and supports as needed.
- Repair chimney by qualified person or remove.
- Install tempered glass in stair landing window.
- Remove all wall, ceiling and floor covering from structure and call for framing inspection when ready - including basement.
- Remove second floor kitchen from structure.
- A building permit is required to correct the above deficiencies.

**ELECTRICAL**                      **Inspector: Dan Moynihan**                      **Phone: 651-266-9036**

- Ground the electrical service to the water service with a copper conductor within 5 feet of the entrance point of the water service
- Bond around water meter with a copper wire sized for the electrical service per Article 250 of the NEC
- Provide a complete circuit directory at service panel indicating location and use of all circuits
- Verify/install a separate 20 ampere laundry circuit and a separate 20 ampere kitchen appliance circuit
- Verify that fuse/circuit breaker amperage matches wire size
- Close openings in service panel/junction boxes with knockout seals, breaker blanks, and/or junction box covers
- Properly strap cables and conduits in basement/ service conduit on the exterior of the house.
- Install globe-type enclosed light fixture on all closet lights.

Re: 767 4th St E  
March 13, 2012  
Page 3

**ELECTRICAL**      **Inspector: Dan Moynihan**      **Phone: 651-266-9036**

- Repair or Replace all broken, missing or loose light fixtures, switches and outlets, covers and plates
- Check all outlets for proper polarity and verify ground on 3-prong outlets
- Install hard-wired, battery backup smoke detector per bulletin 80-1 and other smoke detectors as required by the IRC. Also, Install carbon monoxide detector(s) within 10 feet of all bedrooms
- Remove and or/ re-wire all illegal, improper or hazardous wiring in basement
- Replace all painted-over receptacles.
- All electrical on first floor and basements removed or damaged by vandalism including service panels. Repair to 2011 NEC. Purchase permit for service and all circuits.
- All added receptacles must be grounded, tamper-resistant and be on an Arc-Fault Circuit Interrupter-protected circuit.
- Any open walls or walls that are opened as part of this project must be wired to the standards of the current NEC.
- All buildings on the property must meet the St. Paul Property Maintenance Code (Bulletin 80-1).
- All electrical work must be done by a Minnesota-licensed electrical contractor under an electrical permit.

**PLUMBING**      **Inspector: Rick Jacobs**      **Phone: 651-266-9054**

- Basement - Water Heater - No gas shut off or gas piping incorrect (IFGC 402.1)
- Basement - Water Heater - T and P relief discharge piping incorrect (MPC 2210 Subp. 4)
- Basement - Water Heater - T and P valve Required (MPC 2210 Subp. 2)
- Basement - Water Heater - Vent must be in chimney liner (IFGC 501.12)
- Basement - Water Heater - Water piping incorrect (MPC 1730 Subp. 1)
- Basement - Water Heater - gas venting incorrect (IFGC 503)
- Basement - Water Heater - not fired or in service (MPC 2180)
- Basement - Two Water Heaters - water heaters totally disconnected. Re-install per code or replace to code.
- Basement - Water Meter - corroded piping; incorrect piping (MPC 0200 0.)
- Basement - Water Meter - meter is removed or not in service (MPC 4715.1700)
- Basement - Water Meter - meter needs repair or is broken
- Basement - Water Meter - raise meter to a minimum 12 inches above floor (MPC 2280)
- Basement - Water Meter - remove meter from pit (MPC 88.08)
- Basement - Water Meter - service valves not functional or correct (MPC 1800 Subp 3,4)
- Basement - Water Meter - support meter properly (MPC 2280)
- Basement - Water Meter - meter is missing
- Basement - Water Piping - add appropriate hangers (MPC 1430 Subp. 4)
- Basement - Water Piping - boiler fill water line requires backflow assembly or device (MPC 2100)
- Basement - Water Piping - improper fittings or usage (MPC 0420)
- Basement - Water Piping - improper piping or usage (MPC 0520)

Re: 767 4th St E  
March 13, 2012  
Page 4

**PLUMBING**                      **Inspector: Rick Jacobs**                      **Phone: 651-266-9054**

- Basement - Water Piping - pipe sizing incorrect (MPC 4715.1730)
- Basement - Water Piping - provide water piping to all fixtures and appliances (MPC 1700)
- Basement - Water Piping - repair or replace all corroded, broken or leaking piping (MPC 4715.1720)
- Basement - Water Piping - run 1 inch water line from meter to first major take off (SPRWS Water Code)
- Basement - Water Piping - all water piping is missing. Replace per code.
- Basement - Gas Piping - Some gas piping missing. Replace to code.
- Basement - Gas Piping - dryer gas shutoff; connector or piping incorrect (IFGC 402.1)
- Basement - Gas Piping - replace improper piping or fittings (IFGC 406.1.2)
- Basement - Gas Piping - run dryer vent to code (IFGC 613.1 - IMC 604.1)
- Basement - Soil and Waste Piping - no front sewer clean out (MPC 1000)
- Basement - Soil and Waste Piping - unplugged or open piping; back pitched piping (MPC 1000)
- Basement - Laundry area Stand Pipe - faucet is missing, broken or parts missing (MPC 0200. P.)
- Basement - Laundry area Stand Pipe - waste incorrect (MPC 2300)
- Basement - Laundry area Stand Pipe - water piping incorrect (MPC 0200 P.)
- Basement - Laundry area Stand Pipe - support laundry waste and waters correctly to code.
- First Floor - Toilet - reset to floor and provide proper space for toilet tank
- First Floor - Gas Piping - range gas shut off; connector or piping incorrect (IFGC 411 1.3.3)
- First Floor - Lavatory - faucet is missing, broken, or parts missing (MPC 0200.P.)
- First Floor - Lavatory - fixture is broken or parts missing (MPC 0200 0.)
- First Floor - Lavatory - waste incorrect (MPC 2300)
- First Floor - Lavatory - water piping incorrect (MPC 0200 P.)
- First Floor - Sink - faucet is missing, broken or parts missing (MPC 0200.P.)
- First Floor - Sink - fixture is broken or parts missing (MPC 0200 0.)
- First Floor - Sink - waste incorrect (MPC 2300)
- First Floor - Sink - water piping incorrect (MPC 0200 P.)
- First Floor - Tub and Shower - Provide access (MPC 0900)
- First Floor - Tub and Shower - provide anti-scald valve (MPC 1380. Subp. 5)
- First Floor - Tub and Shower - provide stopper (MPC 1240)
- First Floor - Tub and Shower - replace waste and overflow (MPC 1240)
- First Floor - Tub and Shower - waste incorrect (MPC 2300)
- First Floor - Tub and Shower - water piping incorrect (MPC 0200 P.)
- Second Floor - Toilet - reset toilet to floor
- Second Floor - Gas Piping - range gas shut off; connector or piping incorrect (IFGC 411 1.3.3)
- Second Floor - Lavatory - faucet is missing, broken, or parts missing (MPC 0200.P.)
- Second Floor - Lavatory - fixture is broken or parts missing (MPC 0200 0.)
- Second Floor - Lavatory - waste incorrect (MPC 2300)
- Second Floor - Lavatory - water piping incorrect (MPC 0200 P.)

Re: 767 4th St E  
March 13, 2012  
Page 5

**PLUMBING**                      **Inspector: Rick Jacobs**                      **Phone: 651-266-9054**

- Second Floor - Sink - faucet is missing, broken or parts missing (MPC 0200.P.)
- Second Floor - Sink - fixture is broken or parts missing (MPC 0200 0.)
- Second Floor - Sink - incorrectly vented (MPC 2500)
- Second Floor - Sink - waste incorrect (MPC 2300)
- Second Floor - Sink - water piping incorrect (MPC 0200 P.)
- Second Floor - Tub and Shower - Provide access (MPC 0900)
- Second Floor - Tub and Shower - faucet is missing, broken or parts missing (MPC 0200. P.)
- Second Floor - Tub and Shower - provide anti-scald valve (MPC 1380. Subp. 5)
- Second Floor - Tub and Shower - provide stopper (MPC 1240)
- Exterior - Gas Piping - Improper entry into dwelling (IFGC 404.4)
- Exterior - Entry into building capped and locked off by Excel. Test all gas pipe and re-pipe to code for Excel unlock.
- Obtain plumbing permits prior to commencement of work.

**HEATING**                      **Inspector: Maureen Hanson**                      **Phone: 651-266-9043**

- Clean and Orsat test boiler burner. Check all controls for proper operation. Provide documentation from a licensed contractor that the heating unit is safe
- Vent clothes dryer to code
- Provide adequate combustion air and support duct to code
- Provide support for gas lines to code
- Plug, cap and/or remove all disconnected gas lines
- Provide heat in every habitable room and bathrooms
- Attach metal tag to expansion tank valve stating that this valve must be open at all times except when draining the expansion tank
- Support supply and return piping from heating system according to code
- Conduct witnessed pressure test on hot water heating system and check for leaks
- Install boiler pressure relief valve and pipe discharge to within 18 inches of the floor
- Install back flow preventer on city water fill line to hot water heating system and pipe vent as required.
- Repair or replace radiator valves as needed
- Conduct witnessed pressure test on gas piping system.
- Mechanical gas and hydronic permits are required for the above work.

**ZONING**

1. This property is in a(n) RT1 zoning district.
2. This property was inspected as a Single Family Dwelling.

**Notes:**

- See attachment for permit requirements and appeals procedure.
- This property is in a designated Heritage Preservation District and all exterior work is subject to HPC guidelines and review before permits are issued.

Re: 767 4th St E  
March 13, 2012  
Page 6

**Notes:**

- The building is approved for 1 dwelling units but contains 2 dwelling units. Obtain approval for additional units or remove the excess dwelling units. If the additional units are approved, maintain the required fire-separation between dwelling units and between units and common area.

**This is a registered vacant building. In order to sell or reoccupy this building, all deficiencies listed on this code compliance report must be corrected in accordance with the Minimum Housing Standards of the St. Paul Legislative Code (Chapter 34) and all required permits must receive final approval within six (6) months of the date of this report. One (1) six-month time extension may be requested by the owner and will be considered if it can be shown that the code compliance work is proceeding and is more than fifty (50) percent complete in accordance with Legislative Code Section 33.03(f).**

You may file an appeal to this notice by contacting the City Clerk's Office at 651-266-8688. Any appeal must be made in writing within 10 days of this notice. (You must submit a copy of this notice when you appeal, and pay a filing fee.)

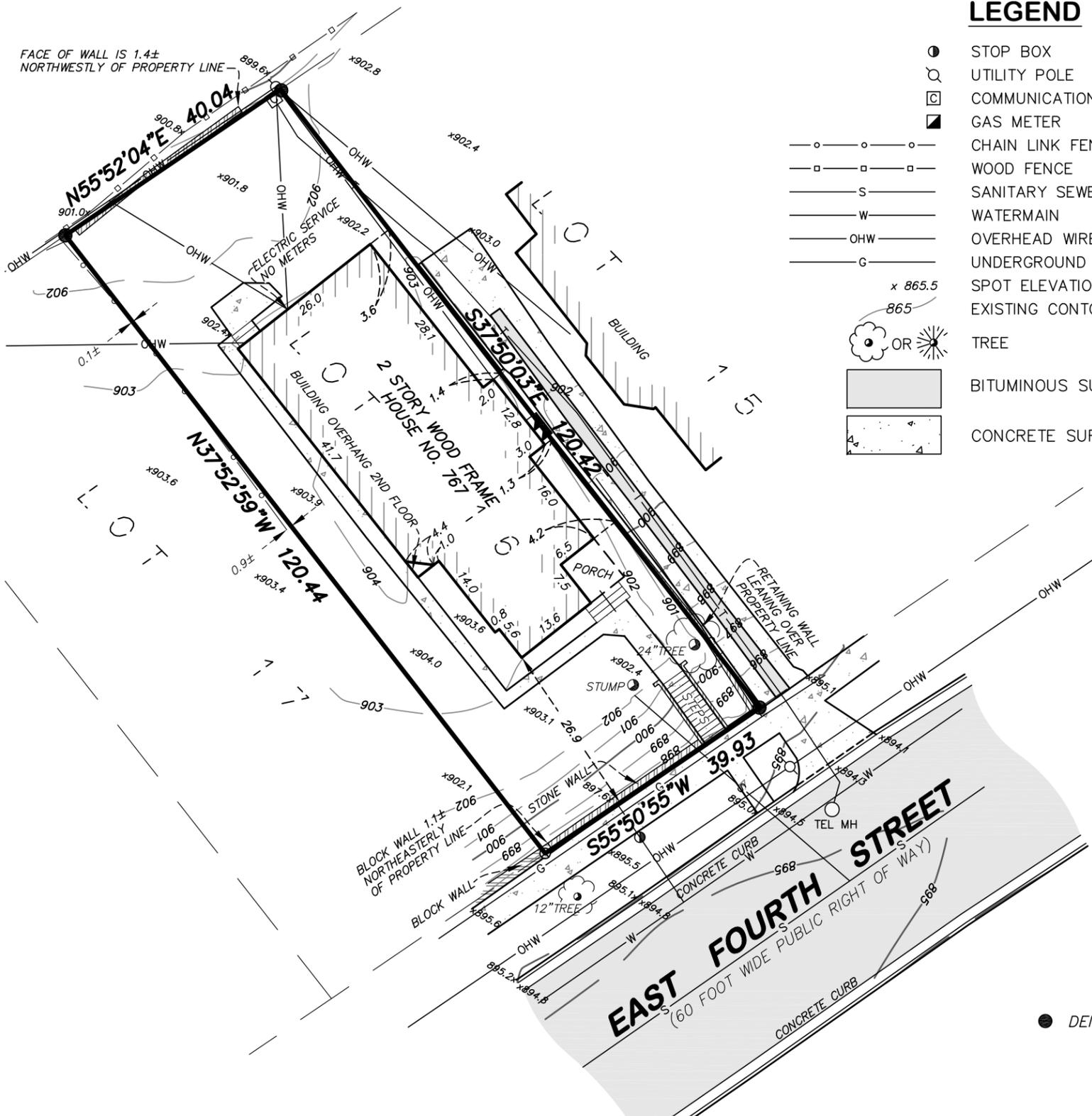
If you have any questions regarding this inspection report, please contact Jim Seeger between 7:30 - 9:00 AM at 651-266-9046 or leave a voice mail message.

Sincerely,

James L. Seeger  
Code Compliance Officer  
Department of Safety and Inspections  
City of Saint Paul  
375 Jackson Street, Suite 220  
Saint Paul MN 55101  
Phone: 651-266-9046  
Email: james.seeger@ci.stpaul.mn.us

JLS:ml  
Attachments

# CERTIFICATE OF SURVEY FOR: HOUSING AND REDEVELOPMENT AUTHORITY OF THE CITY OF SAINT PAUL, MINNESOTA



## LEGEND

- STOP BOX
- UTILITY POLE
- COMMUNICATION BOX
- GAS METER
- CHAIN LINK FENCE
- WOOD FENCE
- S SANITARY SEWER
- W WATERMAIN
- OHW OVERHEAD WIRE
- G UNDERGROUND GAS
- x 865.5 SPOT ELEVATION
- 865 EXISTING CONTOUR LINE
- OR TREE
- BITUMINOUS SURFACE
- CONCRETE SURFACE

## LEGAL DESCRIPTION:

Lot 16, Block 1, Highland Addition to St. Paul, according to the recorded plat thereof, and situate in Ramsey County, Minnesota.

Abstract Property.

Parcel Number: 32.29.22.14.0139  
Parcel Address: 767 Fourth Street E.

## NOTES:

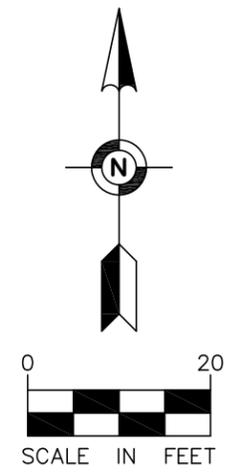
1. The orientation of this bearing system is based on the Ramsey County coordinate grid (NAD 83-96 Adj.).
2. The total area of the property described hereon is 4,805 square feet or 0.1103 acres.
3. The legal description and easement information used in the preparation of this survey is based on the Commitment for Title Insurance prepared by Old Republic National Title Insurance Company, Policy No. OX08001811 dated July 15, 2009.
4. Existing utilities, services and underground structures shown hereon were located either physically, from existing records made available to us, by resident testimony, or by locations provided by Gopher State One Call, per Ticket No. 122482241. However, lacking excavation, the exact location of underground features cannot be accurately, completely and reliably depicted. Where additional or more detailed information is required, the client is advised that excavation may be necessary. Other utilities and services may be present and verification and location of all utilities and services should be obtained from the owners of the respective utilities prior to any design, planning or excavation.
5. Visible improvements are shown on the survey. Other improvements not visible to the surveyor may be present.
6. BENCHMARK: Top nut of the hydrant located at the northwest quadrant of Maple Street and 4th Street. Elevation = 892.66 feet (NAVD 88)

## CERTIFICATION:

I hereby certify that this survey was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Date of survey: September 12, 2012.  
Date of signature: September 24, 2012.

*Brent R. Peters*  
Brent R. Peters  
Minnesota License No. 44123



● DENOTES FOUND IRON MONUMENT

1229 Tyler Street NE, Suite 100  
Minneapolis, Minnesota 55413  
PHONE: (612) 466-3300  
FAX: (612) 466-3383  
WWW.EFNSURVEY.COM  
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SURVEY FOR:  
**HOUSING & REDEVELOPMENT AUTHORITY  
 OF THE CITY OF SAINT PAUL, MINNESOTA**  
 845 CONWAY STREET, SAINT PAUL, MN

|            |      |                  |               |
|------------|------|------------------|---------------|
| FIELD BOOK | PAGE | FIELDWORK CHIEF: | DRAWING NAME: |
| 2795       | 22   | SW               | 35.344.dwg    |
|            |      | PMD              | JOB NO. 35344 |
|            |      | BY:              | FILE NO. 5965 |
|            |      | BRP              |               |