



Level I Environmental Health Assessment

AFP ID #: _____

Contact: _____

Site Address: _____

Contact Phone: _____

Date of Site Visit: _____

Environmental Hygienist

Date

Environmental Health Coordinator

Date

Understanding Your Safe & Healthy Home Report

This report represents the results of a safe and healthy home assessment recently performed at your home. The report includes a general evaluation of the building and the mechanical components in the building along with an assessment of the appliances in your home. Another section of the assessment provides a room by room evaluation of common healthy home issues that can affect the indoor air and environment quality of a home. This assessment shows what issues, if any, were observed and what you should consider changing about your home to improve indoor environmental quality and make your home the healthiest it can be.

Your assessment professional can help you identify the issues identified in your home during the home assessment and what specific actions can be taken to resolve the issue identified. In order to make your home the healthiest it can be, we recommend you take these actions quickly to reduce or eliminate the issues identified.

It is possible that many issues were identified during your home assessment. The Asthma-Friendly Home Partnership Program will try to help you address many of the issues identified and can provide you with the names of community organizations that may have funding that you can apply for to help cover the cost of repairing some of the healthy home issues identified in this report. If you have any questions regarding this home assessment report, or about the Asthma-Friendly Home Program, or want help working with community organizations to get help with healthy home issues, please contact us at anytime at 816-960-8925.

How to Read the Home Assessment Scores in this Report

For the building, mechanical and appliance pages, each component is assessed separately with a series of statements about the condition of that component. For the room assessments, each room is evaluated using 5 healthy home categories. Each item that is part of a component or room category is rated and scored by the assessment professional. If an item looks "OK-Good" or normal, it receives a score of 100 points, if an item is a "Concern", it receives a score of 50 points, if an item is rated as "Take Action", it received 0 points. The assessment score for each component or room category is then an average score of these different items assessed. For example, the air flow and circulation score for the living room is an average score based on 5 different assessment parts.

The assessment score for each component or room category is then given its safe and healthy home assessment rating based on the following guidelines:

85 - 100 points -OK- Good

If an item looks "OK-Good" or normal, it received an average score for all the items assessed of 85 points or higher.

70 - 85 points -Concern

If an item is a "Concern", it received an average score between 70 to 85 points and means there were enough concerns about a particular home component or room, that it should be changed to help improve the indoor environment of the home.

< 70 points -Take Action

If an item is rated as "Take Action", it received an average score of 70 points or lower. These components or rooms had enough problems with them that we believe they need to be changed as soon as possible to improve your home's indoor environmental health.

Finally, at the bottom of each room page is the Home Assessment Room Score which is the average score for all 5 of the healthy home categories used to assess a specific room. The higher your room assessment score is the "healthier the room is. The goal of this assessment is to help you make these scores as high as possible.

1.0 - Environmental Health Issues and Action Summary

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Building Issues and Recommended Actions to take

Photos of Issues

Issue: Splash blocks/extension tubing were missing on downspouts. Downspouts was also observed to be damaged.

Action(s):

- 1) Repair the broken downspout and install extension tubing on all downspouts to assure that water is draining away from home.
- 2) Clean out gutters and downspouts periodically to remove debris to allow proper water drainage.



Issue: A lot of trash and broken glass pieces were observed on side and back of the home. Family reported mice and cockroach issues inside the home.

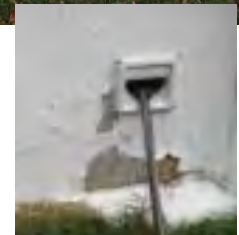
Action(s):

- 1) It is recommended to remove and dispose of all the trash and unwanted items from around the home in order to keep pests and odors away from home.
- 2) Safely remove and dispose of all of the glass pieces around the home in order to prevent injuries from occurring.



Issue: Visible gap was observed around back door of home. Holes were observed on basement windows of the home. Dryer vent opening was not sealed.

Action(s): Install weather stripping around the back door, seal and close all gaps with a proper sealant in order to prevent unwanted air, moisture and pests from entering home.



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Building Issues and Recommended Actions to take

Issue: Flaking paint was observed on exterior stairs and on front porch support columns. Knowing that the house was built around the early 1900s it is possible that lead based paint may also be on some interior walls .

Action(s):

- 1) Since the home was built prior to 1978, there are concerns of lead-based paint in home. Lead paint "dust" is typically the exposure source for many young children due to them crawling on the floors and then placing fingers and hands in mouth. Keeping floors, windows, and around windows free of dust is recommended by "damp" dusting
- 2) If concerned about lead-based paint, it is recommended to have all surfaces in the home tested for lead by a licensed risk assessor. If lead is detected and determined that it needs to be removed, lead-safe work practices should be used at all times. Contact the Kansas City Missouri Health Department's Project Lead Safe KC program at 816-513-6008.

Photos of Issues



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Mechanical Issues and Recommended Actions to take

Photos of Issues



Issue: Dust was observed on furnace system. Very high levels of fine airborne particles and mold spores were measured throughout the home. Low air changes per hour was also measured from vents throughout the home. There was no filter in the furnace and fiber glass filters were observed to be stored around the furnace. Items were also observed to be stored around the furnace.

- Action(s):**
- 1) A licensed Heating, Ventilation, and Air Conditioning (HVAC) expert should assess the furnace to determine why it is not functioning. The HVAC expert should determine if the furnace need to be balanced so that filtered air is evenly distributed throughout the home. This should help improve the air quality throughout the home and decrease the amount of potential contaminants in the spaces.
 - 2) Use a pleated filter in the furnace that has a Minimum Efficiency Rating Value (MERV) rating of at least 8 or a performance rating value filter of 1000 in order to capture smaller particles that are typically breathed in easily, which may cause increased upper respiratory infections.
 - 3) Change the pleated furnace filter every 3 months or per manufacturer's recommendations.
 - 4) Remove clutter from around the furnace in order to prevent the risk of fire hazard and also to allow easy access to change the furnace filter.
 - 5) Clean areas on and around the furnace by "damp dusting" or with a vacuum equipped with a High Efficiency Particulate Air (HEPA) filter to decrease the chances of pulling any unwanted dust or dirt into the HVAC system and possibly distributing it throughout the home. Refer to the safer cleaning book for ideas on how to create non-toxic cleaners.

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Mechanical Issues and Recommended Actions to take

Photos of Issues

Issue: Main junction box was missing a cover in the basement. A notice of hazardous condition form was issued to the family at the time of the assessment.

Action(s): It is recommended to have a certified electrician install a cover on the main junction box to prevent the risk of electrical shock hazards.



Issue: Gas stove was not exhausted to the outside. Gas leak was detected from the kitchen stove; the family was given a hazardous condition form for this issue.

Action(s): 1) It is recommended to have someone repair or replace the gas stove. A licensed plumber should address the gas leak as well. This is a health and safety concern that needs to be addressed immediately .

2) Install an exhaust fan either on the outside wall or above the stove to prevent unwanted carbon monoxide (CO) gas from building-up in the home and to exhaust cooking odors, particles, and moisture out of the home.

3) If installing a kitchen exhaust is not possible then open windows and operate fans during cooking activities.



Issue: Electrical outlets and light switches were loose and/or some were missing a faceplate throughout the home. Plug covers were also observed to be missing.

Action(s): 1) Have a certified electrician install a cover on the electrical outlet to prevent the risk of electric shock hazards.

2) A plug cover should be placed into all unused electrical outlets in order to prevent small children from sticking objects into the outlet, which can be an electrical shock hazards.



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Mechanical Issues and Recommended Actions to take

Photos of Issues

Issue: Water leak from the upstairs bathroom toilet was reported at the time of the assessment. Family currently does not use this bathroom due to this issue. This bathroom was not assessed.

Action(s): It is recommended to have a licensed plumber assess and make the necessary repairs to stop any water leaks in the bathroom so that the family can have access to this particular bathroom.

Issue: Dryer was not exhausted to the outside of the home. Bottom cover was observed to be loose on the washer.

Action(s): 1) It is recommended to have a licensed HVAC expert install a safe and efficient dryer vent so that the dryer exhausts outside the home safely in order to prevent fire hazard, condensation and possible mold growth.

2) It is also recommended to clean the lint from the walls, dryer and dryer vent ducting regularly to prevent a potential fire hazard.

3) Properly replace/install and secure the bottom panel to the washer in order to prevent safety hazards from occurring.

Issue: Exhaust fan/light fixture was loose and missing a cover in the bathroom located on the first floor.

Action(s): 1) Re-attach and install a cover on the exhaust fan in the bathroom

2) Operate fan during, and for 15 - 20 minutes after taking shower/bath to help decrease the humidity level during and to prevent mold and bacteria growth.



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Mechanical Issues and Recommended Actions to take

Photos of Issues

Issue: Corrosion and rust was observed on the base of hot water heater located in the basement of the home.

Action(s): A licensed Heating, Ventilation, and Air Conditioning (HVAC) professional should assess the hot water heater to replace or make necessary repairs in order to prevent future moisture issues and other safety hazards from occurring.



Issue: No supply or return vents were observed in the bathroom located on the first floor.

Action(s): Install ductwork to the bathroom on the floor to ensure that fresh air is introduced and to promote air circulation.

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Issues in the Home and Recommended Actions to take

Issue: Curtains, wall to wall stained carpeting in master bedroom was present and excess dust on carpeting, window sills and floor was observed throughout the house.

Action(s): 1) Vacuum all surface flooring, upholstered furniture, and window areas routinely with a vacuum equipped with a High Efficiency Particulate Air (HEPA) filter (provided by the healthy home program). The HEPA filter will help decrease the amount of allergens and particles that may be present, and not allow them to be reintroduced into the air.

2) Ideally, removing the stained carpeting in the bedrooms and switching to a hard surface flooring is recommended. This type of floor harbors less allergens and is easier to maintain.

3) Launder all cloth window coverings present every 4-6 months to decrease the amount of dust and allergens that may be present. Vacuum cloth window coverings in between laundering to help maintain them and decrease dust and allergens on a weekly basis.

4) "Damp dust" surfaces in the home with a damp cloth. This will help decrease the amount of dust and particles you stir up into the air and possibly exposing the child or sensitive individuals to. Refer to the safer cleaning book for recipes on non-toxic cleaning products.

Photos of Issues



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Issues in the Home and Recommended Actions to take

Issue: No carbon monoxide (CO) detector was observed in the home - (Healthy Home Program provided one CO detector during initial assessment).

- Action(s):**
- 1) It is recommended to place a CO detector between the sleeping areas of the home and all gas combustion sources.
 - 2) Test CO detectors once a month and change batteries twice a year during daylight savings time.
 - 3) If CO detector alarms, the family should exit the home safely and call the fire department/gas company to have the issue addressed.

Issue: Cockroaches were observed throughout the home .

- Action(s):**
- 1) It is recommended to use Integrated Pest Management (IPM) in order to reduce the population of cockroaches that are present by removing trash, picking up any food and water when not using them to also prevent pest access and contamination of those items.
 - 2) It is recommended to place all bulky food items including pet food items in storage containers with reseal-able lids to prevent pest from gaining access to those items.
 - 3) Seal any cracks and gaps that would allow insects and rodents to enter the home.
 - 4) Launder any clothes and other items in hot (130°F) water, that are easily cleaned, to destroy any cockroach and other allergens that may be present.

Photos of Issues



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Issues in Each Room and Recommended Actions to take

Room: **Master Bedroom**

Issue: High levels of cat and rodent allergens and low levels of cockroach allergens were detected in the dust sample collected from the child's bedroom floor. Low levels of dustmites were also measured from the dust collected from the mattress that was placed directly on the floor.

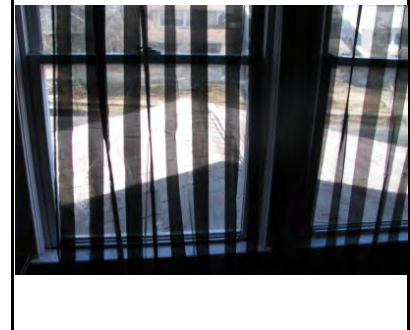
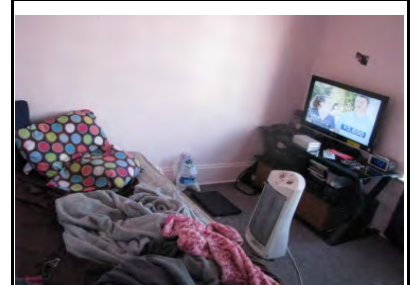
- Action(s):**
- 1) Routinely vacuum all home carpeting with vacuum equipped with a High Efficiency Particulate Air (HEPA) filter (provided by Healthy Home Program.). This will help decrease the amount of allergens and particles that may be present, and not allow them to be reintroduced into the air.
 - 2) Ideally, removing the stained carpeting and switching to a hard surface flooring is recommended. This type of floor harbors less allergens and is easier to maintain. If carpeting cannot be removed then steam clean carpeting to denature the allergens present.
 - 3) Remove the bed from the floor and place it on a bed stand in order to create a barrier between the bed and the floor where allergens are present.
 - 4) It is recommended to use dust mite mattress encasements on the child's bedding to create a barrier between the child and the mattress and box spring where dust mites live.
 - 5) Wash bedding in hot (130 F) water to destroy the allergens that may be present and maintain relative humidity between 30 % - 50% if possible, to keep dust mites from populating.

Room: **Upstairs Bedrooms**

Issue: No window guards on second story windows. Mom reports that children has climbed onto the roof located directly outside of the window in the past. There is also a child that is less than 7 years old in the home.

- Action(s):** Install window guards on bedroom windows to protect child from accidental falls. The spacing between the window guards and the window sill should not exceed a 4 inch gap. If the window is a casement, the entire opening should be guarded by the window guard with no gaps present. The correct window guard should be selected for the type of window it is being used on. Adults and older children should be able to access the window in case of an emergency.

Photos of Issues



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Issues in Each Room and Recommended Actions to take

Room: **Kitchen**

Issue: Large trash bag was observed to be full and stored in the kitchen area. Cockroaches were also observed in this area.

Action(s): Replace the big trash bag with one tall kitchen trash can with a lid (provided by the Healthy Home Program) to be stored in the kitchen area only. Take out trash daily instead of allowing trash to gather inside the home for long periods of time in order to decrease odors, clutter, and keep pests from entering the home.

Room: **Kitchen.**

Issue: Pesticide container was observed to be stored next to food item on top of refrigerator.

Action(s): 1) Keep chemicals in a designated area away from all consumable food, drinks, and any young children. Cross contamination can occur when storing chemicals and cleaning products close to food and drink items.

2) Both Medications and chemicals can be hazardous to young children if stored within reach or in easily accessible locations. Keep all medications and chemicals in a designated locked cabinet or out of reach of young children to prevent any hazardous exposures or accidental poisonings from occurring.

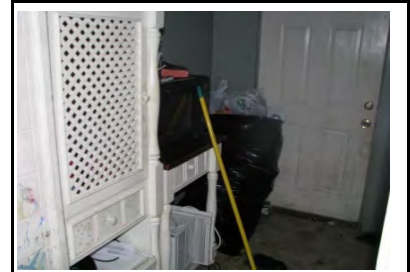
Room: **Kitchen**

Issue: No doors were present on cabinets in kitchen.

Action(s): 1) It is recommended to install missing cabinet doors to keep pests from food items that are stored in cabinets.

2) Install safety latches or locks on cabinets where chemicals or medicines are stored to prevent the risk of chemical poisonings.

Photos of Issues



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Issues in Each Room and Recommended Actions to take

Room: **Living Room**

Issue: Broken glass was observed to be stored in the living room.

Action(s): Safely remove the broken glass in order to prevent safety hazards and injuries from occurring.

Room: **Basement**

Issue: A lot of clutter, building materials, debris and dust were observed in the basement.

Action(s): 1) Remove all upholstered furniture, unwanted items and minimize clutter in the basement to allow easy cleaning and to prevent mold growth on items.

2) Store all wanted items in the basement in totes with resalable lids and place on shelving off of the floor.

5) Remove and dispose of all unwanted building materials from home in order to prevent mold growth and dust accumulation.

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Issues and Owner/Landlord Recommended Actions to take

Issue: Splash blocks/extension tubing were missing on downspouts. Downspouts was also observed to be damaged.

Action(s):

- 1) Repair the broken downspout and install extension tubing on all downspouts to assure that water is draining away from home.
- 2) Clean out gutters and downspouts periodically to remove debris to allow proper water drainage.

Issue: Visible gap was observed around back door of home. Holes were observed on basement windows of the home. Dryer vent opening was not sealed.

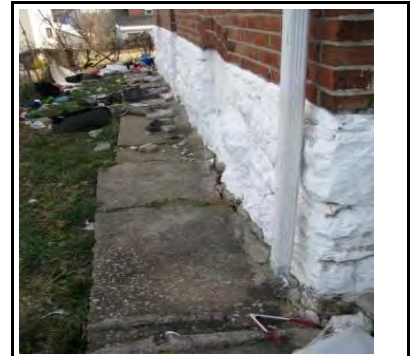
Action(s): Install weather stripping around the back door, seal and close all gaps with a proper sealant in order to prevent unwanted air, moisture and pests from entering home.

Issue: Flaking paint was observed on exterior stairs and on front porch support columns. Knowing that the house was built around the early 1900s it is possible that lead based paint may also be on some interior walls .

Action(s):

- 1) Since the home was built prior to 1978, there are concerns of lead-based paint in home. Lead paint "dust" is typically the exposure source for many young children due to them crawling on the floors and then placing fingers and hands in mouth. Keeping floors, windows, and around windows free of dust is recommended by "damp" dusting
- 2) If concerned about lead-based paint, it is recommended to have all surfaces in the home tested for lead by a licensed risk assessor. If lead is detected and determined that it needs to be removed, lead-safe work practices should be used at all times. Contact the Kansas City Missouri Health Department's Project Lead Safe KC program at 816-513-6008.

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Issues and Owner/Landlord Recommended Actions to take

Issue: Main junction box was missing a cover in the basement. A notice of hazardous condition form was issued to the family at the time of the assessment.

Action(s): It is recommended to have a certified electrician install a cover on the main junction box to prevent the risk of electrical shock hazards.

Issue: Gas stove was not exhausted to the outside. Gas leak was detected from the kitchen stove; the family was given a hazardous condition form for this issue.

Action(s): 1) It is recommended to have someone repair or replace the gas stove. A licensed plumber should address the gas leak as well. This is a health and safety concern that needs to be addressed immediately .

2) Install an exhaust fan either on the outside wall or above the stove to prevent unwanted carbon monoxide (CO) gas from building-up in the home and to exhaust cooking odors, particles, and moisture out of the home.

3) If installing a kitchen exhaust is not possible then open windows and operate fans during cooking activities.

Issue: Electrical outlets and light switches were loose and/or some were missing a faceplate throughout the home. Plug covers were also observed to be missing.

Action(s): 1) Have a certified electrician install a cover on the electrical outlet to prevent the risk of electric shock hazards.

2) A plug cover should be placed into all unused electrical outlets in order to prevent small children from sticking objects into the outlet, which can be an electrical shock hazards.

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Issues and Owner/Landlord Recommended Actions to take

Issue: Exhaust fan/light fixture was loose and missing a cover in the bathroom located on the first floor.

Action(s): 1) Re-attach and install a cover on the exhaust fan in the bathroom
2) Operate fan during, and for 15 - 20 minutes after taking shower/bath to help decrease the humidity level during and to prevent mold and bacteria growth.

Issue: Corrosion and rust was observed on the base of hot water heater located in the basement of the home.

Action(s): A licensed Heating, Ventilation, and Air Conditioning (HVAC) professional should assess the hot water heater to replace or make necessary repairs in order to prevent future moisture issues and other safety hazards from occurring.

Issue: No supply or return vents were observed in the bathroom located on the first floor.

Action(s): Install ductwork to the bathroom on the floor to ensure that fresh air is introduced and to promote air circulation.

Photos of Issues



2.0 Building Assessment:

EHA ID #: _____

Date of Site Visit: _____

Roof	OK	C	TA	NA	Comments	Score
Surface intact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	Unable to assess	
No occupant reported/visible leaks	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>	In living room	50
No evidence of water damage	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
Drip edge condition	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
Flashing condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	Unable to assess	
Chimney flashing condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	Unable to assess	
Ventilation present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	Unable to assess	
	3	2	1	0		

Roof Score: **83**

Exterior Siding	OK	C	TA	NA	Comments	Score
Surface condition	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No flaking paint	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No leaking/moisture retention	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
Weatherized w/ no visible gaps	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
	3	2	1			

*Note any moisture meter readings

Exterior Siding Score: **100**

Guttering	OK	C	TA	NA	Comments	Score
Properly attached and sealed	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No flaking paint	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No leaking/moisture retention	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
Downspouts condition	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>	Little short	50
Splash block/tile condition	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>	Missing	50
	3	2	1			

Guttering Score: **80**

Foundation	OK	C	TA	NA	Comments	Score
No visible cracks	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No reported/visible leaks	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>	Few side of house	50
Weatherized w/ no visible gaps	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No flaking paint on wall surface	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No crawlspace open to living space	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100

If Basement w/ floor	OK	C	TA	NA	Comments	Score
No visible cracks	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No seepage / standing water	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
Floor drain functioning properly	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No flaking paint on floor	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
	3	2	1			

*Note any moisture meter readings

Foundation Score: **94**

Exterior Doors/Windows/Steps	OK	C	TA	NA	Comments	Score
Surface condition	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No flaking paint	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
No leaking/moisture retention	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		100
Weatherized / No visible gaps	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	Hole & gap basement window	0
Outside stairs conditions	3	2	1	<input type="checkbox"/>		100

Exterior Doors and Windows Score: **80**

Construction / Remodeling	How many months since work was completed?					Score		
Outside	>5	>4	>3	>2	>1	NA	% of home affected & location	Score
Roof repair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Siding/Wall replacement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Painting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Inside								
Foundation repair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Wall replacement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Door replacement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Window replacement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Kitchen/Bath remodeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Room remodeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Plumbing replacement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Painting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Floor sanding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Floor finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA
Floor installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	NA

Comments:

Construction/Remodeling Score: **NA**

Photos of Issues



2.0 Mechanical Assessment:

EHA ID #: _____

Date of Site Visit: _____

Furnace System Type: _____

	OK	C	TA	NA
Main box intact	3			
Exhaust properly attached & sealed	3			
Exhaust system works (neg. flow)	3			
No dust covered components		2		
Returns properly attached and sealed	3			
Supplies properly attached and sealed	3			
No suspect material	3			
Functioning filter system				0
Filter condition				0
Correct filter size			1	
Filter properly seated and sealed		2		
Filter changed twice/yr (min)	3			
	3	2	1	

Comments	Score
	100
*Note CO readings:	100
*Spillage test passed: Pass ✓	100
Little dust	50
	100
	100
	100
Unable to assess due to items around unit.	
No filter	0
New fiberglass filter observed	50
	100

Furnace Filter Size 20 X 25X1

Furnace System Score: **80**

Humidifier

	OK	C	TA	NA
Properly attached & sealed				0
No reported/visible leaks				0
No suspect mold visible				0
Water supply line connected properly				0
	3	2	1	

Comments	Score

Humidifier Score: **NA**

Central Air

	OK	C	TA	NA
No reported/visible leaks	3			
Condition of coolant line				0
Condition of condensate hose				0
Condensate hose extends into drain				0
	3	2	1	

Comments	Score
	100
Unable to assess	
Unable to assess	
Unable to assess	

Central Air Score: **100**

Water Heater Type: _____

	OK	C	TA	NA
No reported/visible leaks		2		
Condition of pressure relief valve	3			
Water temp set ≤ 120°F			1	
Steel or brass gas line	3			
Exhaust attached properly	3			
Exhaust system works (neg. flow)	3			
	3	2	1	

Comments	Score
Corrosion/rust on bottom of heater	50
Measured temp (°F): 131F	0
	100
*Note CO readings:	100
*Spillage test passed: Pass ✓	100
*Note any moisture meter readings	

Water Heater Score: **75**

Home Plumbing

Main

	OK	C	TA	NA	Score
No reported/visible leaks	3				100
Line/Pipe condition	3				100
Operating properly	3				100

Waste

	OK	C	TA	NA	Score
	3				100
	3				100
	3				100

Kitchen Sink

	OK	C	TA	NA	Score
No reported/visible leaks	3				100
Line/Pipe condition	3				100
Operating properly	3				100

Score: 100

Tub/Shower

	OK	C	TA	NA	Score
No reported/visible leaks	3				100
Line/Pipe condition	3				100
Operating properly	3				100

Score: 100

Toilet **

	OK	C	TA	NA	Score
No reported/visible leaks			1		0
Line/Pipe condition				0	
Operating properly				0	

Score: 100

Sink

	OK	C	TA	NA	Score
No reported/visible leaks	3				100
Line/Pipe condition	3				100
Operating properly	3				100

Score: 0

Bathroom

Plumbing

Supply Score: **80**

Waste Score: **80**

Comments ** Upstairs bathroom

Photos of Issues



2.0 Appliance Assessment:

EHA ID #:

Date of Site Visit:

Stove Type: Gas

	OK	C	TA	NA
Burners/oven operating properly	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
Gas stoves - No CO detected	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel or brass gas line	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Working exhaust system	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exhausted to outside	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
Cord condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0

Comments	Score
*Rangetop CO readings: 0	0
*Oven CO readings: 0	100
	100
*Note flow results:	100
Not exhausted	0

Stove Score: **60**

Refrigerator

	OK	C	TA	NA
Unit clear of dust and debris	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>
Pre-1980 - Evaporation pan in place	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments	Score
Some debris	50
	100

Refrigerator Score: **75**

Washer

	OK	C	TA	NA
Water draining properly	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>
No reported/visible water leaks	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>
Cord condition	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments	Score
Front loading seal leaks	50
Front loading seal leaks	50
	100

Washer Score: **67**

Dryer Type: Electric

	OK	C	TA	NA
Steel or brass gas line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
Dryer ducting condition	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
Dryer duct exhausts to outside	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
Cord condition	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments	Score
Not attached	0
Not exhausted out	0
	100

Dryer Score: **33**

Window AC

	Unit 1				Unit 2				Describe specific issues	Unit	
	OK	C	TA	NA	OK	C	TA	NA		1	2
Operating correctly	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	1 total	100	
No reported/visible water leaks	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0		100	
Cord condition	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0		100	
Filter condition	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0		100	
Tilted to drain outside	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0		100	
Evaporator pan drain working	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0		100	

Comments	Score

Window Unit 1 Score: **100**

Window Unit 2 Score: **NA**

Air Cleaner

	OK	C	TA	NA
Condition of air cleaner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
Appropriate size for location	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
Allergen filtration present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
Filter condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
Not electronic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0

Comments	Score

Air Cleaner Score: **NA**

Humidifier

	OK	C	TA	NA
Condition of humidifier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
Hot water/steam type humidifier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
Rinsed, water changed daily	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
Disinfected weekly (minimum)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0

Comments	Score

Humidifier Score: **NA**

Portable Fans

	OK	C	TA	NA
Operational	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No accumulated dust on blades	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>
Blade protection in place	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cord condition	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments	Score
4 total	100
Some dust	50
	100
	100

Portable Fan Score: **88**

Space Heaters

	OK	C	TA	NA
No kerosene heaters	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tilt safety shut-off switch	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cord condition	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>

Comments	Score
2 total	100
	100
Plugged into extension cord	50

Space Heaters Score: **83**

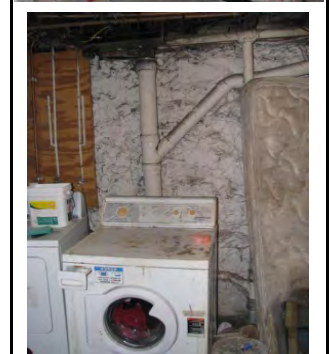
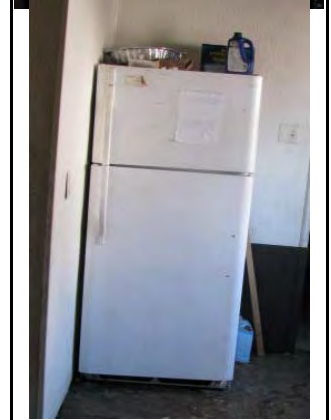
Safety Equipment

	OK	C	TA	NA
Working smoke detectors	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
Working CO detectors	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
Kitchen fire extinguisher	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>
Handrails on inside stairs with > 3 steps	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>

Comments	Score
None	0
None	0
Outdated - One given at EHA	50
Missing on main & basement staircase	0

Safety Equipment Score: **13**

Photos of Issues



3.0 EHA Room Survey: Master Bedroom

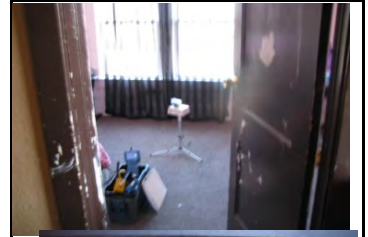
EHA ID #: _____

Date of Site Visit: _____

Air Flow and Circulation

	OK- Good	Concern	Take Action	Not-Applic.	Description	Score
Working supply vent	3					100
Supply vent open	3					100
Supply vent unobstructed	3					100
If return vent present - working				0		
Return vent(s) unobstructed				0		
If windows present-operational	3					100
Room under (+) pressure				0		
Remarks:	3	2	1		AF & C Score:	100

Photos of Issues



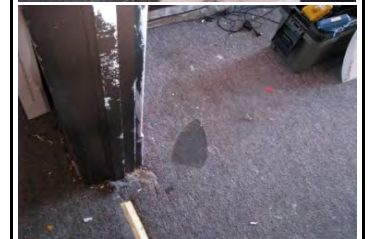
Allergens & Dust

	OK	C	TA	NA	Description	Score
No visible dust			1		On window sill	0
No carpeting present		2			Wall to wall	50
Carpet condition			1		Debris and stains	0
No upholstered furniture	3					100
Upholstered furniture condition				0		
Mattress condition		2			Stains	50
Bedding condition	3				Curtains	100
No cloth window coverings		2			One dog	50
No furry/feathered pets in room		2			Mice	50
No clutter	3				Cockroach	50
No reported/visible evid. of rodents		2				100
No reported/visible evid. of insects		2				
No trash/debris on surfaces	3					
Remarks:	3	2	1		A & D Score:	58



Moisture Control

	OK	C	TA	NA	Description	Score
No damp smell	3					100
No visible moisture stains	3					100
No reported/visible window leaks	3					100
No room humidifier	3					100
No mold smell	3					100
No suspect visible mold	3					100
Visible mold ranking:	3	2	1		*Note moisture readings: NA	
Area affected: NA sq ft		NA	0	1	<2	100
					<10	
					>10	
					>30	
					>100	
Remarks:					MC Score:	100



Chemical Exposure

	OK	C	TA	NA	Description	Score
No smoking allowed in room	3					100
No chemical odors	3					100
No air fresheners	3					100
No candles or incense	3					100
No reported/visible chemical supplies	3					100
No flaking paint on any surface	3					100
Flaking Paint Ranking:	3	2	1			
Area affected: NA sq ft		NA	0	1	<1	100
					1-2	
					2-4	
					4-10	
					>10	
Remarks:					CE Score:	100



Safety & Injury Prevention

	OK	C	TA	NA	Description	Score
Smoke detector in /near room			1		None	0
CO detector near room			1		Nne	0
No overloaded/small gauge ext. cords	3					100
No loose flooring	3					100
Small Children (<7 yrs old):						
Receptacle plug covers			1		None	0
No blind/curtain cords w/in reach	3					100
Window guards (2nd Floor) present			1		None	0
Medicines out of reach	3					100
Remarks:	3	2	1		S & IP Score:	50



3.0 EHA Room Survey: Family Room

EHA ID #: _____

Date of Site Visit: _____

Air Flow and Circulation

	OK- Good	Concern	Take Action	Not Applic.	Description	Score
Working supply vent	3					100
Supply vent open	3					100
Supply vent unobstructed	3					100
If return vent present - working	3					100
Return vent(s) unobstructed		2			Slightly by couch	50
If windows present-operational				0		
Room under (+) pressure	3					100
Remarks:	3	2	1		AF & C Score:	92

Photos of Issues



Allergens & Dust

	OK	C	TA	NA	Description	Score
No visible dust		2			On floor & window sill	50
No carpeting present	3					100
Carpet condition				0		
No upholstered furniture	3					100
Upholstered furniture condition				0		
Mattress condition				0		
Bedding condition				0		
No cloth window coverings		2			Curtains present	50
No furry/feathered pets in room		2			One dog	50
No clutter	3					100
No reported/visible evid. of rodents			1		Cochroach issue	0
No reported/visible evid. of insects			1		Mice issue	0
No trash/debris on surfaces	3					100
Remarks:	3	2	1		A & D Score:	61

Moisture Control

	OK	C	TA	NA	Description	Score
No damp smell	3					100
No visible moisture stains		1			Suspect on ceiling	
No reported/visible window leaks	3					100
No room humidifier	3					100
No mold smell	3					100
No suspect visible mold	3					100
Visible mold ranking:	3	2	1		*Note moisture readings: NA	
Area affected: NA sq ft		NA	0	1	<2	100
				2	<10	
				3	>10	
				4	>30	
				5	>100	
Remarks:					MC Score:	100

Chemical Exposure

	OK	C	TA	NA	Description	Score
No smoking allowed in room	3					100
No chemical odors	3					100
No air fresheners	3					100
No candles or incense		2			Present	50
No reported/visible chemical supplies	3					100
No flaking paint on any surface	3					100
Flaking Paint Ranking:	3	2	1			
Area affected: NA sq ft		NA	0	1	<1	100
				2	1-2	
				3	2-4	
				4	4-10	
				5	>10	
Remarks:					CE Score:	92

Safety & Injury Prevention

	OK	C	TA	NA	Description	Score
Smoke detector in /near room			1		None	0
CO detector near room			1		None	0
No overloaded/small gauge ext. cords	3					100
No loose flooring	3					100
Small Children (<7 yrs old):						
Receptacle plug covers			1		None	0
No blind/curtain cords w/in reach	3					100
Window guards (2nd Floor) present	3					100
Medicines out of reach			1		In reach	0
Remarks:	3	2	1		S & IP Score:	50

3.0 EHA Room Survey: Kitchen

EHA ID #: _____

Date of Site Visit: _____

Air Flow and Circulation

	OK- Good	Concern	Take Actn	Not Applic.
Working supply vent	3			
Supply vent open	3			
Supply vent unobstructed	3			
If return vent present - working				0
Return vent(s) unobstructed				0
Exhaust fan present/operational			1	
If windows present-operational	3			
Room under (-) pressure				0
Remarks:	3	2	1	

Description	Score
_____	100
_____	100
_____	100

Re-circulatory only	0
_____	100

AF & C Score:	80

Photos of Issues



Allergens & Dust

	OK	C	TA	NA
No visible dust		2		
No carpeting/upholstery present	3			
No cloth window coverings	3			
No furry/feathered pets in room		2		
No clutter	3			
Bulk food in containers	3			
Trash stored in container w/ lid			1	
No cracks/gaps around cabinets		2		
No reported/visible evid. of rodents			1	
No reported/visible evid. of insects			1	
No trash/debris on surfaces	3			
Remarks:	3	2	1	

Description	Score
On window sill & counter	50
_____	100
_____	100
One dog	50
_____	100
_____	100
Large trash bag	0
Missing door on cabinet	50
Cockroaches observed	0
Mouse issue reported	0
_____	100
A & D Score:	59

Moisture Control

	OK	C	TA	NA
No damp smell	3			
No visible moisture stains	3			
No reported/visible window leaks	3			
No room humidifier	3			
No mold smell	3			
No suspect visible mold	3			
Visible mold ranking:	3	2	1	
Area affected: NA sq ft		NA	0	1

Description	Score
_____	100
_____	100
_____	100
_____	100
_____	100
_____	100
*Note moisture readings	NA
Area affected: NA sq ft	0
1 <2	2 <10
3 >10	4 >30
5 >100	
MC Score:	100

Chemical Exposure

	OK	C	TA	NA
No smoking allowed in room	3			
No chemical odors	3			
No air fresheners	3			
No candles or incense	3			
No reported/visible chemicals	3			
Chemicals stored in orig. container	3			
Food stored away from chemicals			1	
No flaking paint on any surface	3			
Flaking Paint Ranking:	3	2	1	
Area affected: NA sq ft		NA	0	1

Description	Score
_____	100
_____	100
_____	100
_____	100
_____	100
_____	100
Pesticide next to food	0
_____	100
CE Score:	88

Safety & Injury Prevention

	OK	C	TA	NA
Smoke detector in /near room			1	
CO detector near room			1	
Fire extinguisher present & working			1	
GFCI near water sources	3			
No overloaded/small gauge ext. cords			1	
Chemicals stored in childproof cabinet	3			
No loose flooring	3			
Small Children (<7 yrs old):				
Receptacle plug covers			1	
Cabinet locks on doors				0
No blind/curtain cords w/in reach	3			
Medicines out of reach	3			
Remarks:	3	2	1	

Description	Score
None	0
None	0
None	0
_____	100
None	0
_____	100
_____	100
S & IP Score:	50

Appendix A - Scope of Environmental Health Assessment Report

Scope of Work

This environmental health assessment was performed by the Center for Environmental Health (CEH) at Children's Mercy Hospital. Environmental Health Assessments are a limited visual assessment of the structural and mechanical components of the building, and a visual assessment of the rooms and their contents to look for potential sources of environmental contaminants. On-site measurements of indoor air components and sampling for laboratory analysis for indoor contaminants may be performed to support the assessment, if deemed necessary and appropriate by the assessment team. The visual assessment information that has been gathered, along with any on-site measurements and laboratory results, are reviewed and compiled into this assessment report. This report includes a series of environmental health issues/actions summaries that were used to guide the development of an environmental health action plan in order to assist families as they seek actions they can take to try to improve the indoor environmental quality of their home.

This environmental health assessment is provided through the Kansas City Asthma-Friendly Home Partnership (KCAFHP), a Center for Environmental Health (CEH) community collaboration.

It has specific program components that are targeted to provide education and training to specific groups in the Kansas City community. These groups each represent stakeholders in building a comprehensive, community-based approach to indoor environmental health, and asthma education and management. The ultimate goal of this community-based approach is reduction in new cases of asthma and better management by working with the child's primary care physician and reduction of the healthcare burden of pediatric asthma in the Kansas City.

Hypothesis

The hypothesis for this environmental health assessment was that environmental contaminants were present in the home and that they were of sufficient concentration to contribute to symptoms of occupants with chronic health problems. This hypothesis was tested through visual observations, on-site measurements, and if necessary,

Report Disclaimer and Conditions

This report is limited in scope to the information gathered during site reconnaissance and the results of the laboratory analyses of any samples gathered during reconnaissance. It is intended for use by the family who occupies the building. No information regarding the history of the site or its occupancy has been reviewed. There is no warranty or guarantee of the health or safety conditions in the building based on this assessment. Only readily accessible parts of the building were evaluated and only random samples will be taken. Maintenance and repair issues may be discussed, but a detailed survey of any records are not a part of this assessment report. The report may not be considered a compliance inspection or certification for past or present codes or regulations of any kind.

This assessment and report addresses only allergy or asthma provoking substances, respiratory irritants, and other indoor air quality issues. It does not evaluate presence or concentration of radon gas, lead paint, or asbestos. It is not a formal assessment of the presence of rodents, termites, insects, or other infestations. It is not a formal assessment of fire or safety hazards in the building. No claims can be made beyond the limitations of the information reported herein. No warranties, either expressed or implied, apply to the services described hereunder. If you have any questions regarding any part of this report, please feel free to contact the Center for Environmental Health at Children's Mercy Hospitals and Clinics at 816-960-8919 and we will be happy to assist you.

Appendix B - Photocopies of EHA Authorization, EHA Consent,
and Sample Custody Forms

Appendix C - References Used For This Report

- 1) American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. Thermal Environmental Conditions for Human Occupancy - ASHRAE Standard (ANSI/ASHRAE 55-2010). Atlanta, Georgia, 1992.
- 2) American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings - ASHRAE Standard (ANSI/ASHRAE 62.2-2010). Atlanta, Georgia, 1992.
- 3) Macher, J. (Ed). "Bioaerosols: assessment and control", American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio. 1999.
- 4) Environmental Protection Agency (EPA). Building Air Quality: A Guide for Building Owners and Facility Managers. December, 1991.
- 5) Indoor Environmental Standards Organization, (2nd Edition June 2003) Standards of Practice for the Assessment of Indoor Environmental Quality, Volume 1: Mold Sampling; Assessment of Mold Contamination. Indoor Environmental Standards Organization, Rockville, MD.
- 6) Spengler, J. D., Samet, J.M., McCarthy, J.F. Indoor Air Quality Handbook. January, 2001.
- 7) Institute of Inspection, Cleaning, and Restoration Certification (IICRC). Standard and Reference Guide for Professional Water Damage Restoration - ANSI/IICRC S500, April 2006. Vancouver, Washington.
- 8) International Code Council. International Property Maintenance Code (IPMC), 2012.
- 9) Burroughs, H.E., Hansen, S. Managing Indoor Air Quality (3), 2004.
- 10) Prezant, B., Weekes, D.M., Miller, J.D. Recognition, Evaluation, and Control of Indoor Mold. 2008.