

Molds in Finished Basements

APPENDIX 1-4

Prepared for:

Technical Policy and Research Division
Canada Mortgage and Housing Corporation
700 Montreal Road,
Ottawa, Ontario
K1A 0P7

CMHC Project Manager: Don Fugler

Prepared by:

Scanada Consultants Limited
436 MacLaren Street
Ottawa, Ontario
K2P 0M8

Scanada Consultants Limited
Project Manager: Ken Ruest

April 1996

APPENDIX 1
Forms for data collection, details about the study and disclaimers



**Scanada
Consultants
Limited**

**436 MacLaren Street
Ottawa, Ontario
K2P 0M8**

**Tel: (613) 236-7179
Fax: (613) 236-7202**

Brief Description of Canada and Mortgage and Housing Corporation's Finished Basements, Phase Two Research Project

Scanada Consultants with the Phase 1 researchers, Cate Soroczan and Rosemary Spencer, have been retained by Canada Mortgage and Housing Corporation (CMHC) to do the second phase of the research into finished basements. CMHC's project officer is Don Fugler (tel:748-2658) and Scanada's project manager is Ken Ruest (236-7179).

The next phase of the research has been launched and further testing is to be done in a few houses out of the 405 houses surveyed. You had expressed some interest in some follow-up studies and this is why you have been approached for this phase. Only 24 houses out of the 405 houses surveyed will have the opportunity to participate in this phase. Tests performed during this phase will help identify if there are moisture problems and/or molds growing in the finished wall cavities (and floor cavities if applicable).

Selected wall cavities will be looked at with an optical fibrescope to determine if there are any signs of moisture or mold growth. A half inch hole will need to be drilled into the interior finish to allow this inspection. These holes would be drilled close to the floor (just above the baseboard or about 3 inches above the floor. As much as possible, these will be in inconspicuous places (corners, behind furniture, closets etc.) if there are no localized spots indicating potential moisture trouble in the wall.

If there are visible signs of molds, some sampling will be done to identify the molds found in the wall or floor cavity. At this time, we anticipate that the hole required to take this sample will not need to be any bigger than that of an electrical outlet cover plate. Once we have received the results from the mold analysis, you will be informed if any of the molds found in your house are known to cause health problems.

Wood moisture readings will be taken to see if there is possible wood structure deterioration. These tests will require two holes of about 1/8" each, 1" apart from each other. These would be done in the same wall cavity as for the viewing with the optical fibrescope. Other information that will be gathered will include room air temperatures and relative humidity. The basement wall construction will be determined, so if you would like to know how well insulated your basement walls are, and how the wall is framed, we will be able to tell you.

Testing should not take more than 3.5 hours overall.

If you have any questions with regards to this project, you may call Don Fugler of CMHC or Ken Ruest at Scanada Consultants Limited. Please sign the attached form to confirm your participation in this project and return it to: Scanada Consultants Limited, 436 MacLaren Street, Ottawa, Ontario, K2P 0M8 or Fax it at 236-7202

Phone Questionnaire: CMHC Basement Study: Phase II

House ID # _____ Age:(or yr built) _____ Foundation type _____
Year basement finished _____ Other year finished _____

Apparent signs of moisture? Yes ___ No ___ (9 houses max with no signs of moisture)

Full height finish? Yes ___ No ___ (2 houses max with half height insulation/finish only)

Built between fall 1993 and July 1994? Yes _____ No _____ (1 or 2 only)

Sleepered floor? Yes _____ No _____ (1 or 2 only)

Removable suspended ceiling? Yes ___ No ___ or No finished ceiling? Yes ___ No ___
Type of ceiling _____

Use of basement (Finished Area)

Daily use (part of living space) Yes _____ No _____
Storage _____ Family/Recreation room _____ Bedrooms _____ Office _____ Other _____

Any signs of dampness/moisture in basement? Yes ___ No ___

Where _____

Any history of water leakage in the basement from outside? Yes ___ No ___

Where _____

Recurring? Yes ___ No ___ (Single occurrence or not? Yes ___ No ___)

Comments _____

Any known area of problems hidden by interior basement finish now? Yes ___ No ___

Comments _____

Quality of interior finish (for patching):

Interior finish (type) _____

Baseboards _____

Quarter round _____

Patching options:

Cover plate ___ Plastic plugs ___ Drywall patching compound ___

Clear thermoplastic caulking ___ Matched caulking colour _____

Are owners interested in participating in this stage of the study with some disruption to the interior finish Yes ___ No ___

If yes, can the form be faxed for signature? Yes ___ No ___ (FAX # _____)

House accessible during daytime, week days? Yes ___ No ___

Best day and time for access? Day _____ Time _____

Best time to call _____

Work phone number(s) _____

Best time to call _____



Scanada
Consultants
Limited

436 MacLaren Street
Ottawa, Ontario
K2P 0M8

Tel: (613) 236-7179
Fax: (613) 236-7202

CMHC Research Project: Finished Basements and Potential Health Effects Due to Molds

Date: _____, 1995

House I.D.#: _____

We, (names of home owners) _____, agree to participate in CMHC's research project on Finished Basements and Potential Health Effects Due to Molds. We have read the disclaimer below and agree to this condition. We understand that some disruption to the interior finish in the basement will be necessary for the successful completion of the field tests. The holes made to gain access to the basement wall cavities (and floor, if applicable) will be patched.

Disclaimer

During the course of the basement investigation and mold testing in your house, it is possible that molds that are known to affect human health could be found in your house basement or in the basement wall cavities. Canada Mortgage and Housing Corporation (CMHC) and Scanada Consultants' responsibility is limited to informing you of the presence of such molds in your house. Corrective measures which may be required as a result of these findings will remain the home owners' responsibility as well as any other costs which may be incurred due to these findings.

Home owner's signatures

CMHC Finished Basements and Health Problems Due to Mold

Data collection forms

House I.D.#: _____

Date: _____

Exterior Observations Checklist:(sketch on back of this page)Grading ☐, Eaves troughing ☐, Downspouts ☐, Trees near house or foundation ☐,
Buildings near house ☐, Cracks in foundation wall ☐, Type of foundation ☐.Comments: _____

_____**Exterior Conditions at Time of Inspection:**

On site Temperature: _____ °C, Relative Humidity: _____ %, Time: _____

Comments: _____

Interior Conditions:

Main floor - Temperature: _____ °C, Relative Humidity: _____ %, Room: _____

Basement Finished Area - Temp.: _____ °C, RH: _____ %, Room: _____

Basement Unfinished Area - Temp.: _____ °C, RH: _____ %, Room: _____

Wood Moisture Readings:(for correlation with long term RH)Readings taken in: finished basement ☐, unfinished basement ☐

Location 1: WMR: _____, Temperature: _____ °C, Component: _____

Location 2: WMR: _____, Temperature: _____ °C, Component: _____

Location 3: WMR: _____, Temperature: _____ °C, Component: _____

Location 4: WMR: _____, Temperature: _____ °C, Component: _____

Location 5: WMR: _____, Temperature: _____ °C, Component: _____

Basement Wall Composition: (Interior Finish/Insulation/Framing/Foundation)

From inside to outside (include AVB, air spaces, moisture barriers, exterior membranes on foundation):

Finished area type 1

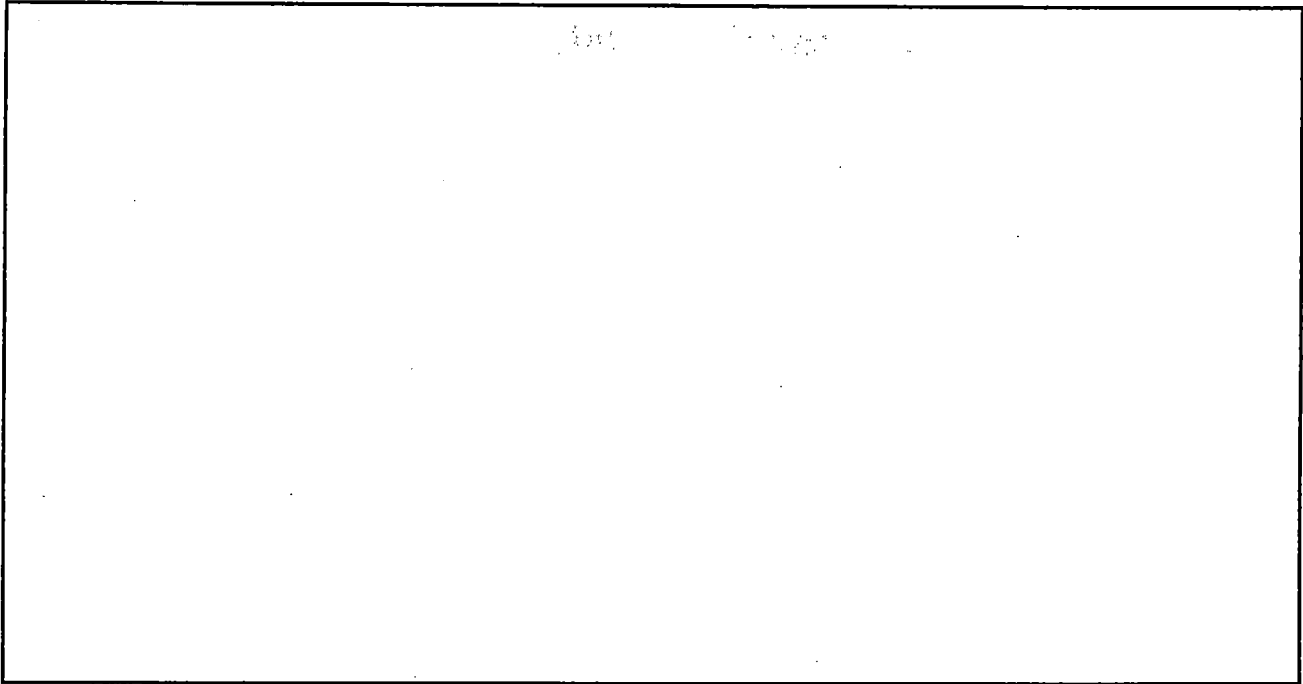
Finished area type 2 (or floor detail)

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

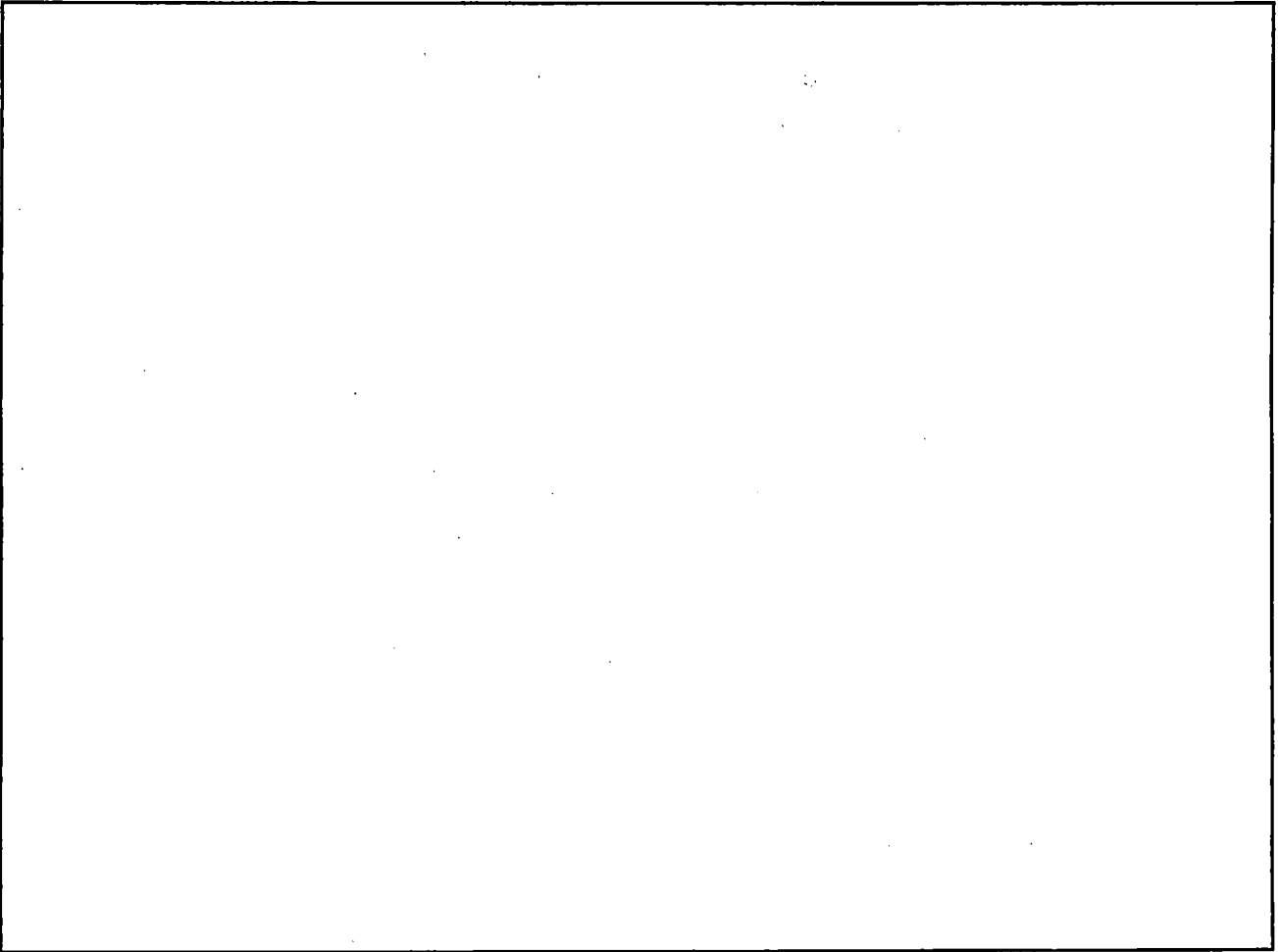
Comments: _____
_____**Basement Ceiling:**(type of finish)**Connection of wall cavity to room air:**

Plan of House and Site Sketch:

House I.D.#: _____



Basement Sketch:



Mold sampling

Location	Sample I.D.#	Swab	Tape	Comment

Description of access to the cavity:(general procedure or specific details if needed)

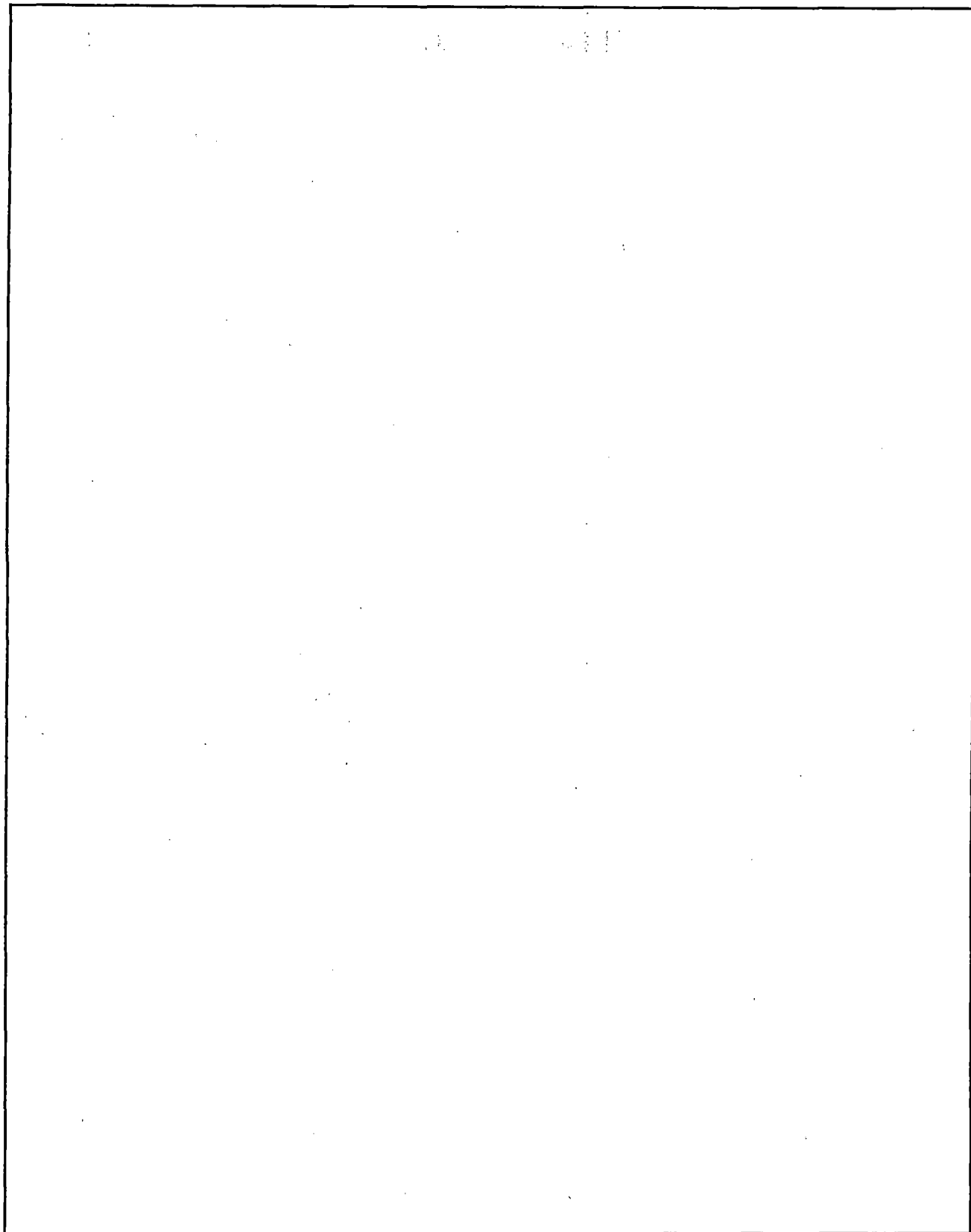
Wood Moisture and Temperature in Wall or Floor cavities:

Location	corresponds to sample #	Wood Moisture Reading	Wood temp. (°C)	Comments

Comments Observations: _____

Sketch

House I.D.# _____





**Scanada
Consultants
Limited**

436 MacLaren Street
Ottawa, Ontario
K2P 0M8

Tel: (613) 236-7179
Fax: (613) 236-7202

**CMHC Research Project: Finished Basements and Potential Health Effects Due to
Molds**

Date: _____, 1995

House I.D.#: _____

Release Form

We, (name(s) of home owner(s)) _____, have
inspected the locations tested in the basement. We accept the conditions of
the patched access openings into the basement wall(s) or floor as seen.

Home owner's signature

APPENDIX 2
Results of cellophane tape and swab samples

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity	
P1-1A			Acremonium kiliense		
			Arthrobotrys oligospora		
			Aspergillus sydowii		
			Aspergillus versicolor	abundant	
			Exophiala jeanselmii	very abundant	
			Gliomastix luzulae		
			Penicillium brevicompactum		
			Penicillium glabrum	abundant	
Phialophora verrucosa					
Verticillium lecanii					
P1-1B			Acremonium kiliense		
			Aspergillus versicolor		abundant
			Myxotrichum ochraceum		abundant
			Oidiodendron cereale	abundant	
			Oidiodendron griseum		
			Penicillium chrysogenum		
			Stachybotrys atra		
			Verticillium lecanii		
P1-1C	Oidiodendron cereale	abundant	Myxotrichum ochraceum	abundant	
			Oidiodendron cereale		
			Stachybotrys atra		
P1-1D	Trichocladium opacum	not abundant			
P1-1D	Trichocladium opacum	abundant			
P2-1	Chaetomium cochlioides Scopulariopsis fusca		Aspergillus sydowii		
			Aspergillus versicolor		
			Chaetomium cochlioides		very abundant
			Malbranchia arcuata	abundant	
			Penicillium chrysogenum		
			Penicillium glabrum		
			Penicillium variabile		
			Scopulariopsis fusca		abundant
			Verticillium lecanii		

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity
P2-2	<i>Aspergillus versicolor</i>		<i>Aspergillus ochraceus</i>	
	<i>Malbranchia arcuata</i>		<i>Aspergillus versicolor</i>	very abundant
	<i>Myxotrichum ochraceum</i>		<i>Malbranchia arcuata</i>	
	<i>Scopulariopsis fusca</i>		<i>Myxotrichum ochraceum</i>	very abundant
P2-3	<i>Aspergillus versicolor</i>		<i>Scopulariopsis fusca</i>	very abundant
	<i>Ascotricha chartarum</i>			
	<i>Exophiala</i> sp.	very abundant		
	<i>Malbranchia arcuata</i>			
M1-1	<i>Scopulariopsis fusca</i>			
	No fungi		<i>Aspergillus versicolor</i>	
			<i>Cladosporium sphaerospermum</i>	
			<i>Eurotium herbariorum</i>	
M1-2			<i>Penicillium chrysogenum</i>	
	unidentifiable fungal cells		<i>Cladosporium sphaerospermum</i>	
			<i>Penicillium glabrum</i>	
M-7	Stud & Joist: fungus a species of <i>Ophiostoma</i> rarely, turn up in air sample			
M4-4	<i>Penicillium</i> sp.	small amount	<i>Penicillium corylophilum</i>	very abundant
			<i>Penicillium commune</i>	not very abundant
			<i>Penicillium glabrum</i>	uncommon
			<i>Trichoderma viride</i>	uncommon
M9-1			Some pink yeast	
			<i>Mucor hiemalis</i>	moderately abundant
			<i>Penicillium simplissimum</i>	moderately abundant
M9-2	unidentifiable		<i>Penicillium commune</i>	abundant
			<i>Penicillium hirsutum</i>	abundant
M11-1	<i>Gliomastix murorum</i>	abundant	<i>Acremonium kiliense</i>	not abundant
	<i>Microascus cinereus</i>	not abundant	<i>Blastobotrys nivea</i>	moderately abundant
	<i>Myxotrichum ochraceum</i>	moderately abund	<i>Gliomastix murorum</i>	very abundant
	<i>Oidiodendron cereale</i>	moderately abund	<i>Malbranchia arcuata</i>	moderately abundant
	<i>Stachybotrys atra</i>	abundant	<i>Penicillium chrysogenum</i>	not abundant

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity
M11-2			<i>Acremonium psalioetae</i>	moderately abundant
			<i>Aspergillus versicolor</i>	exceedingly abundant
M12-1			<i>Aspergillus versicolor</i>	infrequent
			<i>Cladosporium cladosporioides</i>	infrequent
			Pink yeast	
M-13	<i>Aspergillus</i> sp. possibly <i>A. candidus</i>	abundant		
	<i>Aspergillus</i> sp. possibly <i>A. herbariorum</i>	common		
	<i>Aspergillus</i> sp. possibly <i>A. versicolor</i>	abundant		
	<i>Microascus cirrosus</i>	abundant		
	<i>Petriella setifera</i>	very abundant		
M14-1A			<i>Penicillium chrysogenum</i>	common
			<i>Penicillium variabile</i>	very abundant
			* <i>P. variabile</i> / <i>P. chrysogenum</i> = ca. 4/1	
M14-1B			<i>Penicillium chrysogenum</i>	very abundant
			<i>Penicillium variabile</i>	common
			<i>Ulocladium botrytis</i>	common
M14-1C	<i>Malbranchia arcuata</i>	common	<i>Malbranchia arcuata</i>	very abundant
	<i>Microascus cirrosus</i>	very abundant	<i>Oidiodendron cereale</i>	not abundant
			<i>Penicillium chrysogenum</i>	not abundant
M14-2			<i>Aspergillus versicolor</i>	common
			<i>Blastobotrys nivea</i>	not abundant
			<i>Malbranchia arcuata</i>	very abundant
			<i>Oidiodendron cereale</i>	not abundant
M15-1	<i>Stachybotrys atra</i>	very abundant	<i>Chaetomium cochlioides</i>	very abundant
	<i>Sterigmatobotrys macrocarpa</i>	very abundant		
M16-1	<i>Penicillium</i> species	abundant	<i>Aspergillus versicolor</i>	common
			<i>Penicillium canescens</i>	not abundant
			<i>Penicillium chrysogenum</i>	very abundant
M20-1A	<i>Paecilomyces varioti</i>	very abundant	<i>Aspergillus sydowi</i>	not abundant
			<i>Blastobotrys nivea</i>	common
			<i>Gliomastix murorum</i>	not abundant
			<i>Penicillium corylophilum</i>	not abundant
			<i>Penicillium duclauxii</i>	abundant
			<i>Penicillium rugulosum</i>	very abundant
			<i>Torulomyces lagena</i>	not abundant

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity
M20-1B			<i>Blastobotrys nivea</i> <i>Penicillium corylophilum</i> <i>Penicillium duclauxii</i>	common not abundant very abundant
M20-2	<i>Aspergillus</i> sp. possibly <i>A. herbariorum</i>	abundant	<i>Aspergillus versicolor</i> <i>Penicillium chrysogenum</i> <i>Penicillium corylophilum</i>	common not abundant not abundant
M20-3	<i>Aspergillus versicolor</i>	very abundant	<i>Aspergillus versicolor</i>	not abundant
	<i>Cladosporium sphaerospermum</i>	common	<i>Cladosporium sphaerospermum</i>	abundant
	<i>Stachybotrys atra</i>	very abundant	<i>Cylindrocladium?</i> <i>Penicillium chrysogenum</i>	abundant not abundant
			<i>Stachybotrys atra</i>	common
M20-4	<i>Aspergillus</i> sp. possibly <i>A. cervinus</i>	abundant	unidentified, possibly a <i>basidiomycete</i>	1 colony
M21-4	<i>Cladosporium cladosporioides</i> some dark hyphal masses abundant insect frass	common	<i>Blastobotrys nivea</i> <i>Microsphaeropsis olivacea</i> <i>Cladosporium sphaerospermum</i> <i>Penicillium waksmanii</i> Yeast	common abundant not common very abundant abundant
M21-5	<i>Aspergillus</i> sp. possibly <i>A. cervinus</i>	very abundant	<i>Penicillium aurantiogriseum</i>	uncommon
M22-2A	<i>Cladosporium sphaerospermum</i>	very abundant	<i>Cladosporium sphaerospermum</i> <i>Penicillium chrysogenum</i>	very abundant abundant
M22-2B	a few unidentifiable fungal hyphae abundant crystalline material		<i>Cladosporium sphaerospermum</i> <i>Penicillium chrysogenum</i> <i>Penicillium variabile</i>	not common very abundant abundant
M22-2C	<i>Aspergillus</i> sp. possibly <i>A. candidus</i> <i>Scopulariopsis brevicaulis</i>	abundant not abundant	<i>Aspergillus candidus</i>	abundant
			<i>Aspergillus sydowi</i>	abundant
			<i>Aspergillus versicolor</i>	not abundant
			<i>Penicillium chrysogenum</i>	very abundant
			<i>Penicillium crustosum</i>	abundant
			<i>Scopulariopsis brevicaulis</i> <i>Sporothrix schenckii</i>	very abundant abundant

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity
M23-1A	<i>Alternaria alternata</i>	very abundant	<i>Acremonium strictum</i>	very abundant
	<i>Glocladium</i> sp.	very abundant	<i>Alternaria alternata</i>	very abundant
	<i>Scopulariopsis brevicaulis</i>	common	<i>Penicillium chrysogenum</i>	very abundant
	<i>Stachybotrys atra</i>	very abundant		
M23-1B	<i>Acremonium</i> sp.	abundant	<i>Geomyces pannorus</i>	very abundant
	<i>Aspergillus</i> sp. possibly <i>A. herbariorum</i>	common	<i>Penicillium chrysogenum</i>	abundant
	<i>Chaetomium murorum</i>	very abundant	<i>Phoma herbarum</i>	abundant
M23-1C			<i>Aspergillus versicolor</i>	very abundant
			<i>Penicillium chrysogenum</i>	not abundant
			Pink yeast	common
M23-1D	<i>Aspergillus</i> sp.	common	<i>Cladosporium cladosporioides</i>	not abundant
	<i>Geomyces pannorus</i>	abundant	<i>Geomyces pannorus</i>	very abundant
	<i>Scopulariopsis brevicaulis</i>	common	<i>Penicillium chrysogenum</i>	very abundant
	<i>Ulocladium botrytis</i>	common	<i>Ulocladium botrytis</i>	not abundant
M23-1E	<i>Aspergillus versicolor</i>	very abundant		
	<i>Geomyces pannorus</i>	very abundant		
	<i>Scopulariopsis brevicaulis</i>	common		
M23-2A	<i>Acremonium kiliense</i>	common	<i>Acremonium kiliense</i>	very abundant
	<i>Scopulariopsis brevicaulis</i>	abundant	<i>Cladosporium sphaerospermum</i>	common
	<i>Scopulariopsis fusca</i>	abundant	<i>Geomyces pannorus</i>	very abundant
			<i>Penicillium chrysogenum</i>	not abundant
M23-2B	<i>Alternaria alternata</i>	not abundant	<i>Scopulariopsis brevicaulis</i>	very abundant
	abundant plant fibre		<i>Acremonium strictum</i>	very abundant
			<i>Aspergillus versicolor</i>	not abundant
			<i>Cladosporium sphaerospermum</i>	not abundant
M24-1	very little mould		<i>Penicillium chrysogenum</i>	not abundant
	some <i>Penicillium</i> sp.	not abundant	<i>Aspergillus versicolor</i>	not abundant
	plant fibres		<i>Cladosporium cladosporioides</i>	not abundant
			* NB only 6 colonies on 2 plates	
M24-2	abundant plant fibres		<i>Aspergillus versicolor</i>	not abundant
	some dark fungal cells in the plant fibres		<i>Cladosporium cladosporioides</i>	very abundant
	possibly <i>Aureobasidium</i>		<i>Penicillium commune</i>	not abundant
			<i>Penicillium waksmanii</i>	not abundant
			<i>Rhizopus nigricans</i>	not abundant

APPENDIX 3
Temperature, Relative Humidity and
Wood Moisture Reading Summaries

House ID P1					Basement Exposed Wood Moisture Readings				
Date of Visit	Oct. 11/95	Area	Component	Temp	WMR				
Year Built	1959	1. unfin	joist	19.2	8.50				
Year Basement Finished	1979	2. unfin	joist	19.3	9.00				
		3. unfin	joist	20.0	9.00				
		4. unfin	joist	20.0	9.00				
		5. unfin	joist	19.8	8.50				
Exterior Cond's		Basement Wall/Floor Cavity Conditions							
Time of Day	10:00 AM	Location	W/F Cavity	Temp	WMR	Corrected MC			
Temperature, °C	14.0	1	wall	18.0	11.75	16.5			
Rel. Humidity, %	74.0	2	wall	18.5	11.75	16.5			
		3	wall	18.6	14.50	20.7			
		4	-	-	-	-			
		5	-	-	-	-			
Interior Cond's		Molds Found							
Main Flr Temp, °C	18.8	# of Species Identified:		16					
Main Flr RH, %	61.3	# Considered Toxigenic		3					
Room data taken	living room								
Bsmt Finished Area									
Temperature, °C	17.5								
Rel. Humidity, %	60.2								
Room data taken	workroom								
Bsmt Unfinished Area									
Temperature, °C	19.0								
Rel. Humidity, %	60.0								
Room data taken	furnace area								

House ID P2					Basement Exposed Wood Moisture Readings				
Date of Visit	Oct. 12/95	Area	Component	Temp	WMR				
Year Built	1920s	1. unfin	joist	16.2	10.75				
Year Basement Finished	1966	2. unfin	joist	16.0	11.00				
		3. unfin	joist	16.0	10.75				
		4. unfin	joist	15.8	12.50				
		5. unfin	joist	16.0	9.25				
Exterior Cond's		Basement Wall/Floor Cavity Conditions							
Time of Day	9:30 AM	Location	W/F Cavity	Temp	WMR	Corrected MC			
Temperature, °C	14.5	1	wall	14.8	28.00	above 28			
Rel. Humidity, %	63.7	2	wall	14.7	29.00	above 28			
		3	wall	14.4	28.00	above 28			
		4	-	-	-	-			
		5	-	-	-	-			
Interior Cond's		Molds Found							
Main Flr Temp, °C	16.7	# of Species Identified:		12					
Main Flr RH, %	57.3	# Considered Toxigenic		1					
Room data taken	living room								
Bsmt Finished Area									
Temperature, °C	16.5								
Rel. Humidity, %	64.5								
Room data taken	rec room								
Bsmt Unfinished Area									
Temperature, °C	15.5								
Rel. Humidity, %	64								
Room data taken	storage								

House ID P3					Basement Exposed Wood Moisture Readings				
Date of Visit	Oct. 18/95	Area	Component	Temp	WMR				
Year Built	1986	1. unfin	joist	20.6	7.00				
Year Basement Finished	1989	2. unfin	joist	21.1	7.00				
		3. unfin	joist	20.8	7.25				
		4. unfin	joist	22.4	6.50				
		5. unfin	joist	21.1	7.25				
Exterior Cond's		Basement Wall/Floor Cavity Conditions							
Time of Day	5:35 PM	Location	W/F Cavity	Temp	WMR	Corrected MC			
Temperature, °C	18.8	1	wall	20.9	6.75	approx 9.0			
Rel. Humidity, %	34.5	2	wall	20.8	6.75	approx 9.0			
		3	-	-	-	-			
		4	-	-	-	-			
		5	-	-	-	-			
Interior Cond's		Molds Found							
Main Flr Temp, °C	20.1	# of Species Identified:		none					
Main Flr RH, %	44.3	# Considered Toxigenic		n/a					
Room data taken	living room								
Bsmt Finished Area									
Temperature, °C	20.9								
Rel. Humidity, %	44.0								
Room data taken	rec room								
Bsmt Unfinished Area									
Temperature, °C	21.0								
Rel. Humidity, %	44.4								
Room data taken	furnace room								

House ID M1					House ID M3					House ID M4				
Date of Visit Nov. 8/95					Date of Visit Nov. 15/95					Date of Visit Nov. 9/95				
Year Built 1946					Year Built 1962					Year Built 1950				
Year Basement Finished 1983 & 1992					Year Basement Finished 1962, 1968					Year Basement Finished 1970s				
Exterior Cond's					Exterior Cond's					Exterior Cond's				
Time of Day 9:45 AM					Time of Day 9:00 AM					Time of Day 9:00 AM				
Temperature, °C 6.5					Temperature, °C 2.6					Temperature, °C -8.3				
Rel. Humidity, % 58.0					Rel. Humidity, % 90.7					Rel. Humidity, % 67.0				
Basement Exposed Wood Moisture Readings					Basement Exposed Wood Moisture Readings					Basement Exposed Wood Moisture Readings				
Area Component Temp WMR					Area Component Temp WMR					Area Component Temp WMR				
1. unfin joist 19.7 7.50					1. unfin joist 18.6 8.25					1. unfin joist 15.9 8.50				
2. unfin joist 20.5 6.50					2. unfin joist 19.6 11.20					2. unfin joist 16.0 8.00				
3. unfin joist 21.1 6.50					3. unfin joist 19.3 8.75					3. unfin stud 15.9 < 6				
4. unfin stud 20.4 7.25					4. unfin stud 19.6 9.50					4. unfin stud 15.9 6.50				
5. fin stud 21.1 7.00					5. fin stud 18.6 8.25					5. unfin stud 16.1 7.50				
Basement Wall/Floor Cavity Conditions					Basement Wall/Floor Cavity Conditions					Basement Wall/Floor Cavity Conditions				
Location W/F Cavity Temp WMR Corrected MC					Location W/F Cavity Temp WMR Corrected MC					Location W/F Cavity Temp WMR Corrected MC				
1 wall 18.6 8.25 11.3					1 wall 19.2 7.00 9.2					1 wall 15.8 8.00 11.4				
2 wall 19.6 11.20 15.4					2 wall 18.2 9.00 12.4					2 floor 15.7 12.50 18.1				
3 wall 19.3 8.75 11.8					3 wall 17.7 8.25 11.4					3 wall 15.7 7.50 10.5				
4 wall 19.6 9.50 12.9					4 wall 19.5 7.25 9.6					4 - - -				
5 - - -					5 - - -					5 - - -				
Molds Found					Molds Found					Molds Found				
# of Species Identified: 5					# of Species Identified: none					# of Species Identified: 4				
# Considered Toxicogenic 1					# Considered Toxicogenic n/a					# Considered Toxicogenic 1				
Bsmt Finished Area					Bsmt Finished Area					Bsmt Finished Area				
Temperature, °C 23.5					Temperature, °C 15.0					Temperature, °C 16.2				
Rel. Humidity, % 37.0					Rel. Humidity, % 36.0					Rel. Humidity, % 43.4				
Room data taken living space					Room data taken rec room					Room data taken rec room				
Bsmt Unfinished Area					Bsmt Unfinished Area					Bsmt Unfinished Area				
Temperature, °C 23.5					Temperature, °C 18.9					Temperature, °C 17.2				
Rel. Humidity, % 37.0					Rel. Humidity, % 44.0					Rel. Humidity, % 43.0				
Room data taken living space					Room data taken furnace room					Room data taken furnace room				

House ID		M5	Basement Exposed Wood Moisture Readings				
Date of Visit	Nov. 16/95	Area	Component	Temp	WMR		
Year Built	1968	1. furnace	joist	17.6	6.75		
Year Basement Finished	1970, 1994	2. furnace	joist	17.4	6.50		
		3. office	joist	19.2	6.00		
		4. office	dr-jmb	20.0	6.50		
		5. rec rm	joist	19.7	6.00		
Exterior Cond's							
Time of Day	9:05 AM						
Temperature, °C	0.7						
Rel. Humidity, %	75.0						
Basement Wall/Floor Cavity Conditions							
		Location	W/F Cavity	Temp	WMR	Corrected MC	
		1	wall	15.0	10.50	15.0	
		2	wall	14.2	7.00	10.0	
		3	wall	15.8	6.75	approx 9.0	
		4	wall	15.8	11.50	16.5	
		5	wall	17.6	7.00	9.5	
Interior Cond's							
Main Flr Temp, °C	19.3						
Main Flr RH, %	37.6						
Room data taken	hallway						
Bsmt Finished Area							
Temperature, °C	19.6						
Rel. Humidity, %	36.5						
Room data taken	rec room						
Bsmt Unfinished Area							
Temperature, °C	19.7						
Rel. Humidity, %	36.3						
Room data taken	furnace room						
House ID		M6	Basement Exposed Wood Moisture Readings				
Date of Visit	Nov. 20/95	Area	Component	Temp	WMR		
Year Built	Jul-94	1. wkshp	joist	17.8	7.50		
Year Basement Finished	1994	2. wkshp	joist	16.5	6.50		
		3. living are	joist	18.6	7.00		
		4. furn	stud	18.9	6.50		
		5. furn	stud	19.3	7.50		
Exterior Cond's							
Time of Day	11:00 AM						
Temperature, °C	0.4						
Rel. Humidity, %	55.6						
Basement Wall/Floor Cavity Conditions							
		Location	W/F Cavity	Temp	WMR	Corrected MC	
		1	wall	17.3	11.50	16.22	
		2	wall	16.2	10.00	14.11	
		3	wall	17.1	10.00	13.98	
		4	wall	15.0	9.50	13.59	
		5					
Interior Cond's							
Main Flr Temp, °C	19.9						
Main Flr RH, %	32.5						
Room data taken	living room						
Bsmt Finished Area							
Temperature, °C	18.6						
Rel. Humidity, %	35.8						
Room data taken	workshop						
Bsmt Unfinished Area							
Temperature, °C	n/a						
Rel. Humidity, %	n/a						
Room data taken	n/a						
House ID		M7	Basement Exposed Wood Moisture Readings				
Date of Visit	Nov. 23/95	Area	Component	Temp	WMR		
Year Built	Aug. 1993	1. unfin	joist	21.4	< 6		
Year Basement Finished	1993	2. unfin	joist	21.3	< 6		
		3. unfin	stud	21.5	< 6		
		4. furn	joist	21.6	< 6		
		5. unfin	joist	21.8	< 6		
Exterior Cond's							
Time of Day	10:00 AM						
Temperature, °C	0.0						
Rel. Humidity, %	90.0						
Basement Wall/Floor Cavity Conditions							
		Location	W/F Cavity	Temp	WMR	Corrected MC	
		1a.	wall	16.5	8.00	11.3	
		1b.	wall	16.8	14.50	21.4	
		2a.	wall	8.7	16.00	25.6	
		2b.	wall	9.1	9.00	13.8	
		2c.	wall	16.4	9.50	13.4	
		3	wall	15.5	10.00	14.2	
		4	wall	16.3	7.50	10.5	
		5	wall	18.2	7.50	10.2	
Interior Cond's							
Main Flr Temp, °C	20.2						
Main Flr RH, %	26.3						
Room data taken	living room						
Bsmt Finished Area							
Temperature, °C	20.9						
Rel. Humidity, %	26.9						
Room data taken	rec room						
Bsmt Unfinished Area							
Temperature, °C	21.9						
Rel. Humidity, %	26.7						
Room data taken	furnace room						
House ID		M8	Basement Exposed Wood Moisture Readings				
Date of Visit	Nov. 23/95	Area	Component	Temp	WMR		
Year Built	1994	1. fin	backing	17.0	7.00		
Year Basement Finished	1994, 1995	1. fin	joist	17.0	9.00		
		1. fin	plate	17.8	7.50		
		1. fin	stud	19.8	< 6		
		1. fin	stud	19.6	6.50		
Exterior Cond's							
Time of Day	2:30 PM						
Temperature, °C	2.8						
Rel. Humidity, %	91.3						
Basement Wall/Floor Cavity Conditions							
		Location	W/F Cavity	Temp	WMR	Corrected MC	
		1	wall	15.1	8.50	12.2	
		2	wall	13.5	7.00	10.1	
		3	wall	15.0	9.50	13.6	
		4	wall	11.9	9.00	13.3	
		5					
Interior Cond's							
Main Flr Temp, °C	19.9						
Main Flr RH, %	38.6						
Room data taken	living room						
Bsmt Finished Area							
Temperature, °C	19.7						
Rel. Humidity, %	37.9						
Room data taken	rec room						
Bsmt Unfinished Area							
Temperature, °C	n/a						
Rel. Humidity, %	n/a						
Room data taken	n/a						

<div>House ID<div>M9</div></div>					<div>House ID<div>M11</div></div>				
<div>Date of Visit<div>Nov. 27/95</div></div>					<div>Date of Visit<div>Nov. 28/95</div></div>				
<div>Year Built<div>1987</div></div>					<div>Year Built<div>1921</div></div>				
<div>Year Basement Finished<div>1987</div></div>					<div>Year Basement Finished<div>1989, 1990</div></div>				
<div>Exterior Cond's</div>					<div>Exterior Cond's</div>				
<div>Time of Day<div>2:00 PM</div></div>					<div>Time of Day<div>3:00 PM</div></div>				
<div>Temperature, °C<div>-8.0</div></div>					<div>Temperature, °C<div>-8.0</div></div>				
<div>Rel. Humidity, %<div>79.0</div></div>					<div>Rel. Humidity, %<div>61.0</div></div>				
<div>Interior Cond's</div>					<div>Interior Cond's</div>				
<div>Main Flr Temp, °C<div>19.4</div></div>					<div>Main Flr Temp, °C<div>20.7</div></div>				
<div>Main Flr RH, %<div>35.2</div></div>					<div>Main Flr RH, %<div>30.0</div></div>				
<div>Room data taken<div>dining room</div></div>					<div>Room data taken<div>dining room</div></div>				
<div>Bsmt Finished Area</div>					<div>Bsmt Finished Area</div>				
<div>Temperature, °C<div>17.2</div></div>					<div>Temperature, °C<div>20.6</div></div>				
<div>Rel. Humidity, %<div>39.2</div></div>					<div>Rel. Humidity, %<div>32.2</div></div>				
<div>Room data taken<div>suite</div></div>					<div>Room data taken<div>rec room</div></div>				
<div>Bsmt Unfinished Area</div>					<div>Bsmt Unfinished Area</div>				
<div>Temperature, °C<div>18.3</div></div>					<div>Temperature, °C<div>20.0</div></div>				
<div>Rel. Humidity, %<div>34.8</div></div>					<div>Rel. Humidity, %<div>34.2</div></div>				
<div>Room data taken<div>furnace room</div></div>					<div>Room data taken<div>furnace room</div></div>				

<div>House ID<div>M10</div></div>					<div>House ID<div>M12</div></div>				
<div>Date of Visit<div>Nov. 28/95</div></div>					<div>Date of Visit<div>Nov. 29/95</div></div>				
<div>Year Built<div>1970</div></div>					<div>Year Built<div>1984</div></div>				
<div>Year Basement Finished<div>1975</div></div>					<div>Year Basement Finished<div>1985, 1986</div></div>				
<div>Exterior Cond's</div>					<div>Exterior Cond's</div>				
<div>Time of Day<div>9:00 AM</div></div>					<div>Time of Day<div>6:00 PM</div></div>				
<div>Temperature, °C<div>-8.0</div></div>					<div>Temperature, °C<div>-12.0</div></div>				
<div>Rel. Humidity, %<div>73.0</div></div>					<div>Rel. Humidity, %<div>66.0</div></div>				
<div>Interior Cond's</div>					<div>Interior Cond's</div>				
<div>Main Flr Temp, °C<div>20.1</div></div>					<div>Main Flr Temp, °C<div>19.0</div></div>				
<div>Main Flr RH, %<div>31.5</div></div>					<div>Main Flr RH, %<div>31.5</div></div>				
<div>Room data taken<div>living room</div></div>					<div>Room data taken<div>living</div></div>				
<div>Bsmt Finished Area</div>					<div>Bsmt Finished Area</div>				
<div>Temperature, °C<div>18.6</div></div>					<div>Temperature, °C<div>18.3</div></div>				
<div>Rel. Humidity, %<div>34.2</div></div>					<div>Rel. Humidity, %<div>38.3</div></div>				
<div>Room data taken<div>rec room</div></div>					<div>Room data taken<div>rec room</div></div>				
<div>Bsmt Unfinished Area</div>					<div>Bsmt Unfinished Area</div>				
<div>Temperature, °C<div>19.5</div></div>					<div>Temperature, °C<div>18.0</div></div>				
<div>Rel. Humidity, %<div>31.6</div></div>					<div>Rel. Humidity, %<div>38.5</div></div>				
<div>Room data taken<div>furnace</div></div>					<div>Room data taken<div>furnace room</div></div>				

<div>Basement Exposed Wood Moisture Readings</div>					<div>Basement Exposed Wood Moisture Readings</div>				
Area	Component	Temp	WMR		Area	Component	Temp	WMR	
1. unfin	joist	18.2	7.00		1. fin	strap	24.0	< 6	
2. unfin	joist	18.8	7.00		2. fin	stud	21.0	7.00	
3. unfin	stair	18.8	7.00		3. unfin	stud	20.3	7.00	
4. unfin	stud	18.8	8.00		4. fin	bknng	19.9	6.50	
5. unfin	joist	19.8	7.50		5. fin	joist	24.6	7.00	

<div>Basement Wall/Floor Cavity Conditions</div>					<div>Basement Wall/Floor Cavity Conditions</div>				
Location	W/F Cavity	Temp	WMR	Corrected MC	Location	W/F Cavity	Temp	WMR	Corrected MC
1	wall	14.2	< 6	approx 10.0	1a	wall	9.5	11.50	17.82
2	wall	15.0	< 6	approx 10.0	1b	floor	8.6	15.50	24.74
3	wall	14.5	7.00	9.93	2	wall	10.9	10.50	15.82
4	wall	19.1	< 6	approx 10.0	3	wall	11.3	8.00	12.01
5					4				
					5				

<div>Molds Found</div>					<div>Molds Found</div>				
<div># of Species Identified:<div>4</div></div>					<div># of Species Identified:<div>11</div></div>				
<div># Considered Toxicogenic<div>0</div></div>					<div># Considered Toxicogenic<div>2</div></div>				

<div>Basement Exposed Wood Moisture Readings</div>					<div>Basement Exposed Wood Moisture Readings</div>				
Area	Component	Temp	WMR		Area	Component	Temp	WMR	
1. fin	stud	17.6	< 6		1. unfin	joist	18.8	8.50	
2. fin	trim	18.9	< 6		2. unfin	stud	18.0	8.00	
3. unfin	joist	20.1	< 6		3. lant-rm	stud	25.7	10.00	
4. unfin	stud	19.9	< 6		4. plant-rm	strap	22.4	10.00	
5. unfin	stud	19.9	< 6		5. furn	joist	23.6	7.50	

<div>Basement Wall/Floor Cavity Conditions</div>					<div>Basement Wall/Floor Cavity Conditions</div>				
Location	W/F Cavity	Temp	WMR	Corrected MC	Location	W/F Cavity	Temp	WMR	Corrected MC
1	wall	15.1	8.00	11.5	1a	wall	14.5	9.00	13.0
2	wall	17.2	7.00	9.5	1b	wall	16.6	9.00	12.6
3a	wall	18.5	7.50	10.1	2a	wall	16.6	7.50	10.4
3b	wall	15.5	8.00	11.4	2b	wall	17.2	7.50	10.3
4	wall	17.0	9.00	12.6	3a	wall	14.7	9.00	12.9
5	wall	15.7	8.5	12.1	3b	wall	16.1	9.00	12.7
					4				
					5	wall	16.8	8.00	11.2

<div>Molds Found</div>					<div>Molds Found</div>				
<div># of Species Identified:<div>none</div></div>					<div># of Species Identified:<div>2</div></div>				
<div># Considered Toxicogenic<div>n/a</div></div>					<div># Considered Toxicogenic<div>1</div></div>				

House ID M13		Basement Exposed Wood Moisture Readings				House ID M15		Basement Exposed Wood Moisture Readings					
Date of Visit	Dec. 4/95	Area	Component	Temp	WMR	Date of Visit	Dec. 5/95	Area	Component	Temp	WMR		
Year Built	1969	1. unfin	joist	20.1	6.50	Year Built	1988	1. fin	joist	14.2	< 6		
Year Basement Finished	1985	2. unfin	joist	19.8	6.75	Year Basement Finished	1988	2. unfin	joist	15.0	< 6		
Exterior Cond's		3. fin	barnboard	19.8	6.75	Exterior Cond's		3. fin	joist	15.7	< 6		
Time of Day	9:00 AM	4. fin	barnboard	20.1	6.50	Time of Day	9:00 AM	4. fin	step	15.9	7.75		
Temperature, °C	-4.0	5. unfin	stud	19.8	6.75	Temperature, °C	-14.0	5. unfin	strap	18.8	7.00		
Rel. Humidity, %	84.0	Basement Wall/Floor Cavity Conditions				Rel. Humidity, %	80.0	Basement Wall/Floor Cavity Conditions					
Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC	Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC
Main Flr Temp, °C	20.4	1a	wall	18.4	6.50	approx. 9.0	Main Flr Temp, °C	17.8	1	wall	14.2	> 30	above 28
Main Flr RH, %	32.2	1b	wall	19.2	6.50	approx 9.0	Main Flr RH, %	33.0	2	wall	11.7	7.00	10.3
Room data taken	living room	2	-	-	-	-	Room data taken	living room	3	wall	2.0	6.00	approx 11.0
Bsmt Finished Area		3	wall	14.2	11.50	16.8	Bsmt Finished Area		4	wall	8.6	11.00	17.1
Temperature, °C	19.9	4	wall	17.0	9.00	13.4	Temperature, °C		17.4				
Rel. Humidity, %	32.0	Molds Found					Rel. Humidity, %		31.4	Molds Found			
Room data taken	rec room	# of Species Identified:	5				Room data taken		rec room	# of Species Identified:	3		
Bsmt Unfinished Area		# Considered Toxicogenic	1				Bsmt Unfinished Area			# Considered Toxicogenic	1		
Temperature, °C	20.1						Temperature, °C		17.5				
Rel. Humidity, %	30.0						Rel. Humidity, %		30.1				
Room data taken	furnace rm						Room data taken		furnace room				

House ID M14		Basement Exposed Wood Moisture Readings				House ID M16		Basement Exposed Wood Moisture Readings					
Date of Visit	Dec. 4/95	Area	Component	Temp	WMR	Date of Visit	Dec. 5/95	Area	Component	Temp	WMR		
Year Built	1970	1. fin	joist	24.7	< 6	Year Built	1957	1. unfin	joist	16.4	8.25		
Year Basement Finished	1995	2. fin	strap	24.6	< 6	Year Basement Finished	1960, 1995	2. unfin	stud	16.4	7.25		
Exterior Cond's		3. fin	dr-jamb	23.8	< 6	Exterior Cond's		3. unfin	backing	16.0	7.50		
Time of Day	4:00 PM	4. fin	trim	23.4	< 6	Time of Day	1:30 AM	4. unfin	joist beam	16.7	6.50		
Temperature, °C	-2.0	5. fin	trim	24.4	< 6	Temperature, °C	-9.0	5. fin	shelf leg	16.0	< 6		
Rel. Humidity, %	70.0	Basement Wall/Floor Cavity Conditions				Rel. Humidity, %	65.0	Basement Wall/Floor Cavity Conditions					
Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC	Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC
Main Flr Temp, °C	20.7	1	wall	16.6	< 6	approx 9.0	Main Flr Temp, °C	19.1	1	wall	9.2	7.50	11.5
Main Flr RH, %	28.6	2	wall	19.1	10.00	13.7	Main Flr RH, %	44.6	2	wall	6.3	8.00	12.8
Room data taken	living	3a	wall	13.1	8.50	12.5	Room data taken	living room	3	wall	15.2	13.00	19.0
Bsmt Finished Area		3b	wall	13.1	8.00	11.8	Bsmt Finished Area		4	-	-	-	-
Temperature, °C	20.8	4	floor	19.6	11.50	15.8	Temperature, °C		15.0	Molds Found			
Rel. Humidity, %	31.9	5	wall	16.0	0.52	20.7/above	Rel. Humidity, %		49.0	# of Species Identified:			3
Room data taken	bedroom	Molds Found					Room data taken		rec room	# Considered Toxicogenic			1
Bsmt Unfinished Area		# Considered Toxicogenic	1				Bsmt Unfinished Area						
Temperature, °C	n/a						Temperature, °C		17.5				
Rel. Humidity, %	n/a						Rel. Humidity, %		49.0				
Room data taken	n/a						Room data taken		furnace room				

House ID M17					Basement Exposed Wood Moisture Readings					
Date of Visit	Dec. 6/95	Area	Component	Temp	WMR					
Year Built	1987	1. unfin	stud	18.4	6.75					
Year Basement Finished	1987, 1990	2. unfin	joist	19.5	< 6					
		3. unfin	stud	18.5	< 6					
Exterior Cond's		4. unfin	joist	20.3	6.50					
Time of Day	11:00 AM	5. unfin	strap	19.6	< 6					
Temperature, °C	-4.0									
Rel. Humidity, %	50.0									
Interior Cond's										
Main Flr Temp, °C	18.4									
Main Flr RH, %	34.0									
Room data taken	living room									
Bsmt Finished Area					Basement Wall/Floor Cavity Conditions					
Temperature, °C	16.9	Location	W/F Cavity	Temp	WMR	Corrected MC				
Rel. Humidity, %	35.5	1	wall	10.9	< 6	approx 10.0				
Room data taken	rec room	2	wall	14.6	6.25	approx 9.0				
		3	wall	18.8	< 6	approx 9.0				
		4	wall	18.8	6.50	approx 9.0				
		5	-	-	-	-				
Bsmt Unfinished Area					Molds Found					
Temperature, °C	18.0									
Rel. Humidity, %	30.7									
Room data taken	furnace room									

House ID M18					Basement Exposed Wood Moisture Readings					
Date of Visit	Dec. 12/95	Area	Component	Temp	WMR					
Year Built	1970	1. unfin	stud	21.1	< 6					
Year Basement Finished	1980	2. unfin	stud	22.1	< 6					
		3. fin	joist	26.2	< 6					
Exterior Cond's		4. fin	stud	22.5	< 6					
Time of Day	9:00 AM	5. unfin	joist	24.0	< 6					
Temperature, °C	-19.0									
Rel. Humidity, %	55.0									
Interior Cond's										
Main Flr Temp, °C	20.7									
Main Flr RH, %	25.9									
Room data taken	living room									
Bsmt Finished Area					Basement Wall/Floor Cavity Conditions					
Temperature, °C	18.9	Location	W/F Cavity	Temp	WMR	Corrected MC				
Rel. Humidity, %	30.8	1	wall	15.1	10.50	15.0				
Room data taken	rec room	2	wall	18.1	10.00	13.8				
		3	wall	15.9	9.50	13.5				
		4	wall	16.8	8.00	11.2				
		5	-	-	-	-				
Bsmt Unfinished Area					Molds Found					
Temperature, °C	22.0									
Rel. Humidity, %	23.0									
Room data taken	furnace room									

House ID M19					Basement Exposed Wood Moisture Readings					
Date of Visit	Dec. 12/95	Area	Component	Temp	WMR					
Year Built	1983	1. unfin	stud	21.1	< 6					
Year Basement Finished	1989	2. unfin	stud	20.0	< 6					
		3. unfin	joist	25.2	< 6					
Exterior Cond's		4. unfin	stud	21.2	< 6					
Time of Day	6:00 PM	5. unfin	stud	21.0	< 6					
Temperature, °C	-16.0									
Rel. Humidity, %	54.0									
Interior Cond's										
Main Flr Temp, °C	25.6									
Main Flr RH, %	24.0									
Room data taken	living room									
Bsmt Finished Area					Basement Wall/Floor Cavity Conditions					
Temperature, °C	18.9	Location	W/F Cavity	Temp	WMR	Corrected MC				
Rel. Humidity, %	29.0	1	wall	16.1	< 6	approx 9.0				
Room data taken	rec room	2	wall	12.5	< 6	approx 10.0				
		3	wall	14.1	< 6	approx 10.0				
		4	wall	18.4	< 6	approx 9.0				
		5	-	-	-	-				
Bsmt Unfinished Area					Molds Found					
Temperature, °C	20.6									
Rel. Humidity, %	28.0									
Room data taken	furnace room									

House ID M20					Basement Exposed Wood Moisture Readings					
Date of Visit	Dec. 13/95	Area	Component	Temp	WMR					
Year Built	1960	1. unfin	joist	17.3	< 6					
Year Basement Finished	1986	2. unfin	stud	17.5	< 6					
		3. unfin	post	17.4	6.50					
Exterior Cond's		4. unfin	joist	27.7*	< 6					
Time of Day	5:00 PM	5. unfin	stud	21.0	< 6					
Temperature, °C	-16.0									
Rel. Humidity, %	51.0									
Interior Cond's										
Main Flr Temp, °C	20.6									
Main Flr RH, %	24.0									
Room data taken	living room									
Bsmt Finished Area					Basement Wall/Floor Cavity Conditions					
Temperature, °C	17.8	Location	W/F Cavity	Temp	WMR	Corrected MC				
Rel. Humidity, %	26.0	1	wall	11.8	10.50	15.6				
Room data taken	bedroom	2	wall	3.5	< 6	approx 11.0				
		3	wall	10.4	< 6	approx 10.0				
		4	-	-	-	-				
		5	-	-	-	-				
Bsmt Unfinished Area					Molds Found					
Temperature, °C	19.4									
Rel. Humidity, %	30.0									
Room data taken	furnace room									

House ID	M21	Basement Exposed Wood Moisture Readings				House ID	M23	Basement Exposed Wood Moisture Readings					
Date of Visit	Dec. 14/95	Area	Component	Temp	WMR	Date of Visit	Dec. 18/95	Area	Component	Temp	WMR		
Year Built	1962	1. fin	stud	14.2	7.50	Year Built	1992	1. fin	joist	17.9	8.00		
Year Basement Finished	1970, 1993	2. fin	stud	14.2	7.50	Year Basement Finished	1992	2. fin	joist	18.6	6.50		
Exterior Cond's		3. unfin	joist	21.5	< 6	Exterior Cond's		3. fin	joist	18.2	7.00		
Time of Day	9:00 AM	4. unfin	joist	21.2	< 6	Time of Day	7:00 PM	4. fin	joist	17.8	7.00		
Temperature, °C	-14.0	5. fin	closet	14.4	9.50	Temperature, °C	-13.0	5. fin	joist	18.2	7.00		
Rel. Humidity, %	64.0	Basement Wall/Floor Cavity Conditions				Rel. Humidity, %	72.0	Basement Wall/Floor Cavity Conditions					
Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC	Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC
Main Flr Temp, °C	16.1	1	wall	13.8	10.50	15.3	Main Flr Temp, °C	20.0	1	wall	9.6	< 6	approx 10.0
Main Flr RH, %	49.0	2	wall	6.9	9.00	14.2	Main Flr RH, %	38.0	2	wall	10.1	10.00	15.2
Room data taken	living room	3	wall	11.0	10.40	16.7	Room data taken	living room	3	wall	9.5	10.00	15.3
Bsmt Finished Area		4a	wall	1.9	11.50	19.6	Bsmt Finished Area		4				
Temperature, °C	15.6	4b	wall	-2.1	11.50	20.6	Temperature, °C	17.2	5				
Rel. Humidity, %	43.0	5a	wall	11.7	9.00	13.4	Rel. Humidity, %	37.0	Molds Found				
Room data taken	rec room	5b	wall	13.2	9.50	13.9	Room data taken	rec room	# of Species Identified: 16				
Bsmt Unfinished Area		Molds Found				Bsmt Unfinished Area		# Considered Toxicogenic 3					
Temperature, °C	16.7	# of Species Identified: 7				Temperature, °C	15.0						
Rel. Humidity, %	41.0	# Considered Toxicogenic 1				Rel. Humidity, %	42.0						
Room data taken	furnace room					Room data taken	cold room						

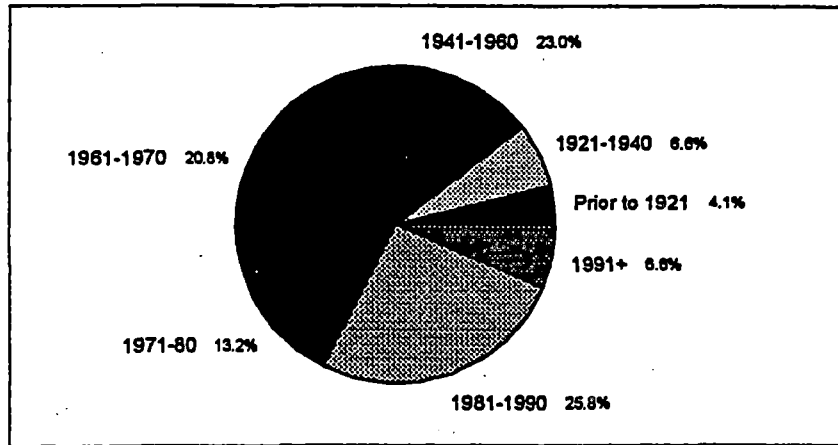
House ID	M22	Basement Exposed Wood Moisture Readings				House ID	M24	Basement Exposed Wood Moisture Readings					
Date of Visit	Dec. 15/95	Area	Component	Temp	WMR	Date of Visit	Dec. 19/95	Area	Component	Temp	WMR		
Year Built	1982	1. fin	stud	20.2	< 6	Year Built	1971	1. unfin	joist	20.2	< 6		
Year Basement Finished	1982, 1986	2. fin	stud	20.3	< 6	Year Basement Finished	1975, 1993	2. unfin	stud	19.7	8.00		
Exterior Cond's		3. unfin	joist	20.1	< 6	Exterior Cond's		3. unfin	joist	20.5	< 6		
Time of Day	10:00 AM	4. unfin	joist	20.4	< 6	Time of Day	10:00 AM	4. unfin	stud	18.7	7.00		
Temperature, °C	-8.0	5. fin	closet	19.4	9.00	Temperature, °C	-17.0	5. unfin	stud	18.9	6.50		
Rel. Humidity, %	75.0	Basement Wall/Floor Cavity Conditions				Rel. Humidity, %	59.0	Basement Wall/Floor Cavity Conditions					
Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC	Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC
Main Flr Temp, °C	19.4	1	wall	14.1	7.50	10.8	Main Flr Temp, °C	21.1	1	wall	16.8	8.50	11.89
Main Flr RH, %	33.0	2	wall	12.5	9.50	14.0	Main Flr RH, %	44.0	2	wall	17.2	< 6	approx 8.0
Room data taken	living room	3	wall	17.5	6.50	approx 9.0	Room data taken	living room	3				
Bsmt Finished Area		4	wall	13.4	< 6	approx 10.0	Bsmt Finished Area		4	wall	30.0	< 6	approx 7.0
Temperature, °C	19.4	5					Temperature, °C	18.9	5	wall	13.6	< 6	approx 9.0
Rel. Humidity, %	33.0	Molds Found				Rel. Humidity, %	44.0	Molds Found					
Room data taken	rec & bdsm	# of Species Identified: 9				Room data taken	rec room	# of Species Identified: 5					
Bsmt Unfinished Area		# Considered Toxicogenic 2				Bsmt Unfinished Area		# Considered Toxicogenic 1					
Temperature, °C	n/a					Temperature, °C	19.4						
Rel. Humidity, %	n/a					Rel. Humidity, %	41.0						
Room data taken	n/a					Room data taken	furnace room						

APPENDIX 4
Statistical Summary of Inspections of 405 Finished Basements

12 June 1995

STATISTICAL SUMMARY OF INSPECTIONS OF 405 FINISHED BASEMENTS

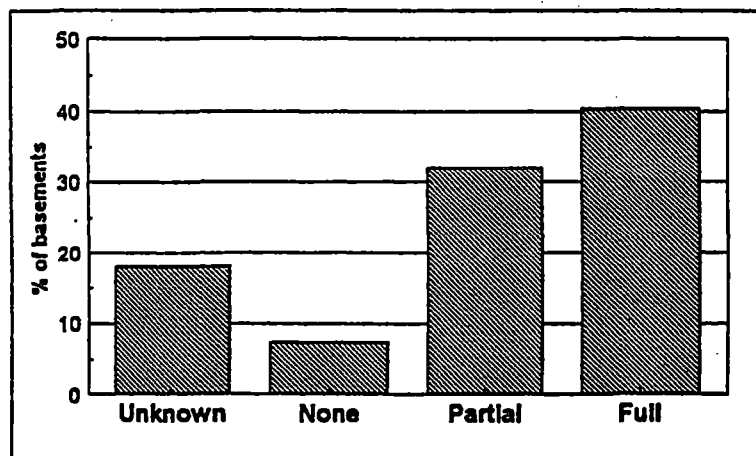
Year of house construction



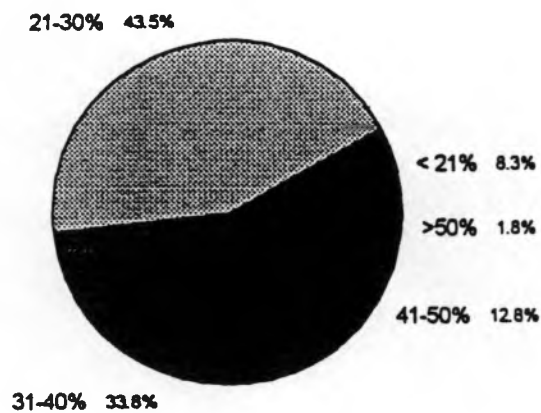
Other characteristics

- 83 % poured foundations
- 42 % have 100% wall coverage: others usually exceed 50% coverage
- Mostly drywall or wood panels for finishing: 7% still with exposed plastic or insulation
- Few basements with exterior insulation/drainage layer

Extent of wall insulation



Basement relative humidity



Are there moisture problems?

- Roughly 75% say there are no moisture problems
- Roughly 50% have some obvious evidence of past problems: spalling concrete, efflorescence, stains, mould
- About 35% have basement smell identified as "musty", "mouldy", or "earthy"

Preliminary analysis

- No real correlation of basement RH and moisture problems, evidence of problems, outdoor temperature, etc.; however, dampest basements tended to show up when outside temperatures moderate (rather than very cold)
- Older basements more apt to show problems
- Smells unrelated to type of floor covering (eg. rugs)

Molds in Finished Basements

APPENDIX 1-4

Prepared for:

Technical Policy and Research Division
Canada Mortgage and Housing Corporation
700 Montreal Road,
Ottawa, Ontario
K1A 0P7

CMHC Project Manager: Don Fugler

Prepared by:

Scanada Consultants Limited
436 MacLaren Street
Ottawa, Ontario
K2P 0M8

Scanada Consultants Limited
Project Manager: Ken Ruest

April 1996

APPENDIX 1

Forms for data collection, details about the study and disclaimers



**Scanada
Consultants
Limited**

436 MacLaren Street
Ottawa, Ontario
K2P 0M8

Tel: (613) 236-7179
Fax: (613) 236-7202

Brief Description of Canada and Mortgage and Housing Corporation's Finished Basements, Phase Two Research Project

Scanada Consultants with the Phase 1 researchers, Cate Soroczan and Rosemary Spencer, have been retained by Canada Mortgage and Housing Corporation (CMHC) to do the second phase of the research into finished basements. CMHC's project officer is Don Fugler (tel:748-2658) and Scanada's project manager is Ken Ruest (236-7179).

The next phase of the research has been launched and further testing is to be done in a few houses out of the 405 houses surveyed. You had expressed some interest in some follow-up studies and this is why you have been approached for this phase. Only 24 houses out of the 405 houses surveyed will have the opportunity to participate in this phase. Tests performed during this phase will help identify if there are moisture problems and/or molds growing in the finished wall cavities (and floor cavities if applicable).

Selected wall cavities will be looked at with an optical fibrescope to determine if there are any signs of moisture or mold growth. A half inch hole will need to be drilled into the interior finish to allow this inspection. These holes would be drilled close to the floor (just above the baseboard or about 3 inches above the floor. As much as possible, these will be in inconspicuous places (corners, behind furniture, closets etc.) if there are no localized spots indicating potential moisture trouble in the wall.

If there are visible signs of molds, some sampling will be done to identify the molds found in the wall or floor cavity. At this time, we anticipate that the hole required to take this sample will not need to be any bigger than that of an electrical outlet cover plate. Once we have received the results from the mold analysis, you will be informed if any of the molds found in your house are known to cause health problems.

Wood moisture readings will be taken to see if there is possible wood structure deterioration. These tests will require two holes of about 1/8" each, 1" apart from each other. These would be done in the same wall cavity as for the viewing with the optical fibrescope. Other information that will be gathered will include room air temperatures and relative humidity. The basement wall construction will be determined, so if you would like to know how well insulated your basement walls are, and how the wall is framed, we will be able to tell you.

Testing should not take more than 3.5 hours overall.

If you have any questions with regards to this project, you may call Don Fugler of CMHC or Ken Ruest at Scanada Consultants Limited. Please sign the attached form to confirm your participation in this project and return it to: Scanada Consultants Limited, 436 MacLaren Street, Ottawa, Ontario, K2P 0M8 or Fax it at 236-7202

Phone Questionnaire: CMHC Basement Study: Phase II

House ID # _____ Age:(or yr built) _____ Foundation type _____
Year basement finished _____ Other year finished _____

Apparent signs of moisture? Yes ___ No ___ (9 houses max with no signs of moisture)

Full height finish? Yes ___ No ___ (2 houses max with half height insulation/finish only)

Built between fall 1993 and July 1994? Yes _____ No _____ (1 or 2 only)

Sleepered floor? Yes _____ No _____ (1 or 2 only)

Removable suspended ceiling? Yes ___ No ___ or No finished ceiling? Yes ___ No ___
Type of ceiling _____

Use of basement (Finished Area)

Daily use (part of living space) Yes _____ No _____
Storage _____ Family/Recreation room _____ Bedrooms _____ Office _____ Other _____

Any signs of dampness/moisture in basement? Yes ___ No ___
Where _____

Any history of water leakage in the basement from outside? Yes ___ No ___
Where _____
Recurring? Yes ___ No ___ (Single occurrence or not? Yes ___ No ___)
Comments _____

Any known area of problems hidden by interior basement finish now? Yes ___ No ___
Comments _____

Quality of interior finish (for patching):

Interior finish (type) _____
Baseboards _____
Quarter round _____

Patching options:

Cover plate ___ Plastic plugs ___ Drywall patching compound ___
Clear thermoplastic caulking ___ Matched caulking colour _____

Are owners interested in participating in this stage of the study with some disruption to the interior finish Yes ___ No ___

If yes, can the form be faxed for signature? Yes ___ No ___ (FAX # _____)

House accessible during daytime, week days? Yes ___ No ___

Best day and time for access? Day _____ Time _____

Best time to call _____

Work phone number(s) _____

Best time to call _____



Scanada
Consultants
Limited

436 MacLaren Street
Ottawa, Ontario
K2P 0M8

Tel: (613) 236-7179
Fax: (613) 236-7202

CMHC Research Project: Finished Basements and Potential Health Effects Due to Molds

Date: _____, 1995

House I.D.#: _____

We, (names of home owners) _____, agree to participate in CMHC's research project on Finished Basements and Potential Health Effects Due to Molds. We have read the disclaimer below and agree to this condition. We understand that some disruption to the interior finish in the basement will be necessary for the successful completion of the field tests. The holes made to gain access to the basement wall cavities (and floor, if applicable) will be patched.

Disclaimer

During the course of the basement investigation and mold testing in your house, it is possible that molds that are known to affect human health could be found in your house basement or in the basement wall cavities. Canada Mortgage and Housing Corporation (CMHC) and Scanada Consultants' responsibility is limited to informing you of the presence of such molds in your house. Corrective measures which may be required as a result of these findings will remain the home owners' responsibility as well as any other costs which may be incurred due to these findings.

Home owner's signatures

Data collection forms

Date: _____

Grading ☐, Eaves troughing ☐, Downspouts ☐, Trees near house or foundation ☐,
Buidlings near house ☐, Cracks in foundation wall ☐, Type of foundation ☐.

Comments: _____

On site Temperature: _____ °C, Relative Humidity: _____ %, Time: _____

Comments: _____

Main floor - Temperature: _____ °C, Relative Humidity: _____ %, Room: _____

Basement Finished Area - Temp.: _____ °C, RH: _____ %, Room: _____

Basement Unfinished Area - Temp.: _____ °C, RH: _____ %, Room: _____

Readings taken in: finished basement ☐, unfinished basement ☐

Location 1: WMR:_____, Temperature:_____°C, Component:_____

Location 2: WMR:_____, Temperature:_____°C, Component:_____

Location 3: WMR:_____, Temperature:_____°C, Component:_____

Location 4: WMR:_____, Temperature:_____°C, Component:_____

Location 5: WMR:_____, Temperature:_____°C, Component:_____

From inside to outside (include AVB, air spaces, moisture barriers, exterior membranes on foundation):

Finished area type 1

Finished area type 2 (or floor detail)

[illegible]

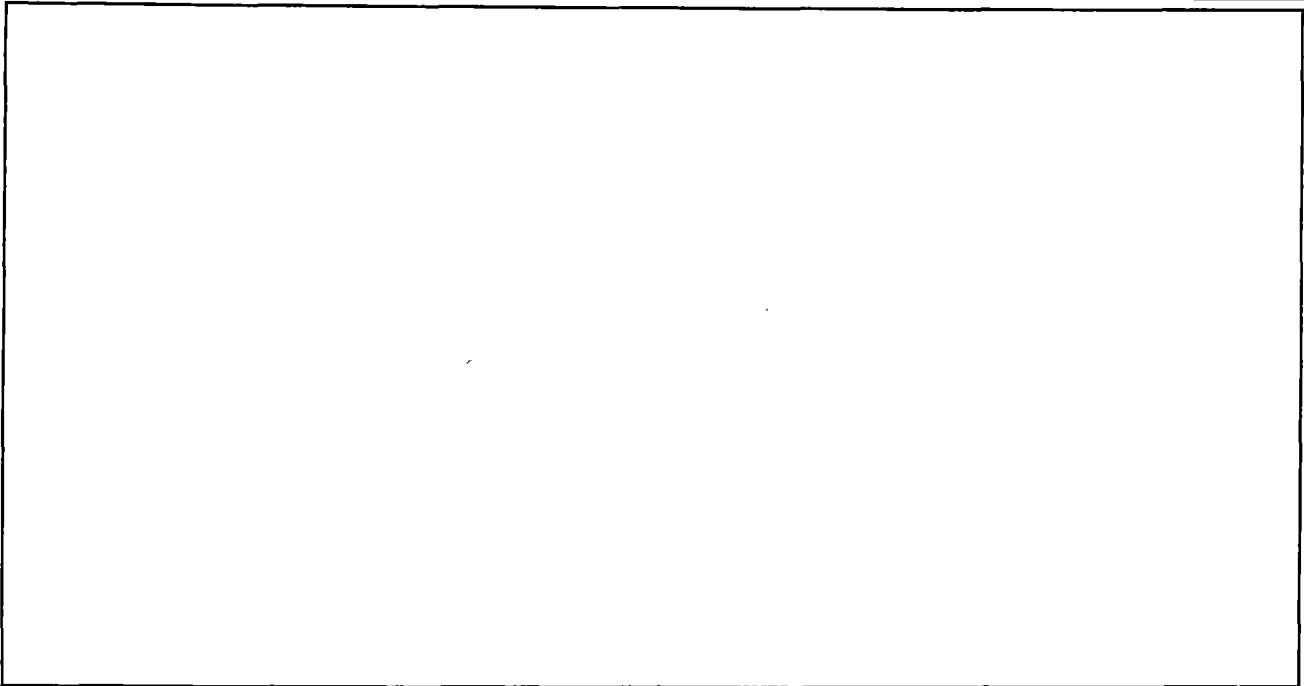
Comments: _____

Basement Ceiling:(type of finish)

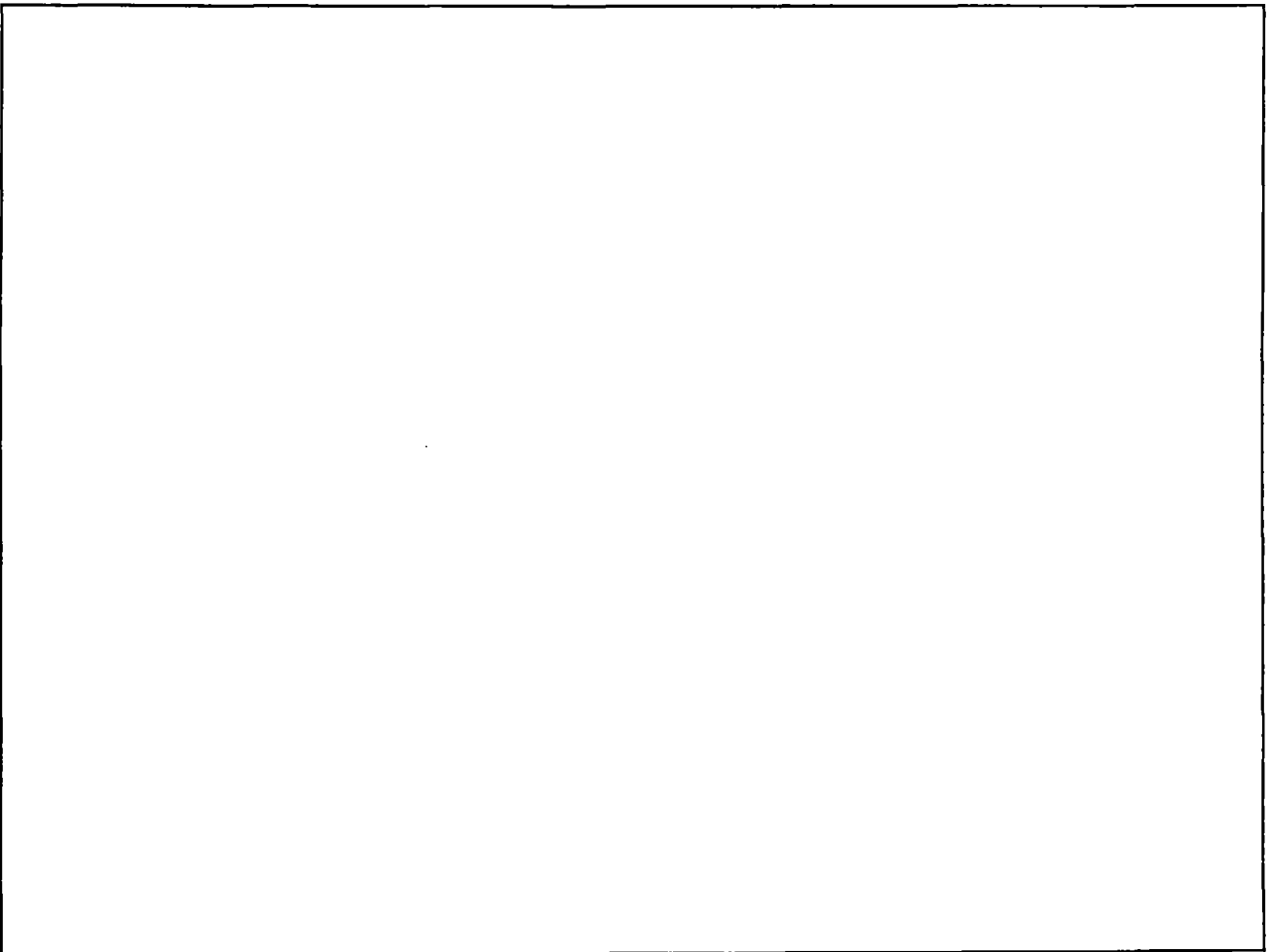
Connection of wall cavity to room air:

Plan of House and Site Sketch:

House I.D.#: _____



Basement Sketch:



Mold sampling

Location	Sample I.D.#	Swab	Tape	Comment

Description of access to the cavity:(general procedure or specific details if needed)

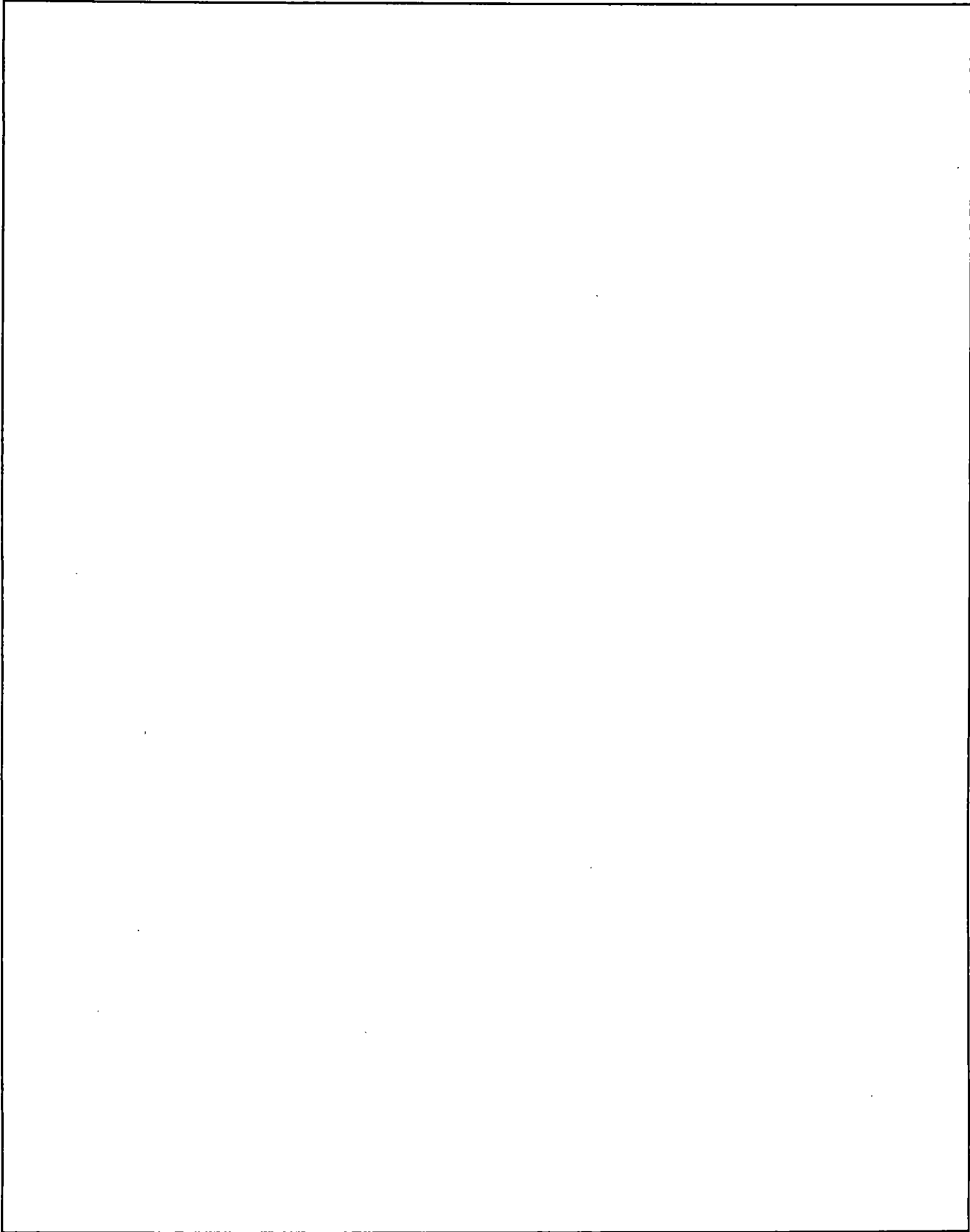
Wood Moisture and Temperature in Wall or Floor cavities:

Location	corresponds to sample #	Wood Moisture Reading	Wood temp. (°C)	Comments

Comments Observations: _____

Sketch

House I.D.# _____





**Scanada
Consultants
Limited**

436 MacLaren Street
Ottawa, Ontario
K2P 0M8

Tel: (613) 236-7179
Fax: (613) 236-7202

**CMHC Research Project: Finished Basements and Potential Health Effects Due to
Molds**

Date: _____, 1995

House I.D.#: _____

Release Form

We, (name(s) of home owner(s)) _____, have
inspected the locations tested in the basement. We accept the conditions of
the patched access openings into the basement wall(s) or floor as seen.

Home owner's signature

APPENDIX 2
Results of cellophane tape and swab samples

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity
P1-1A			<i>Acremonium kiliense</i>	
			<i>Arthrobotrys oligospora</i>	
			<i>Aspergillus sydowii</i>	
			<i>Aspergillus versicolor</i>	
			<i>Exophiala jeanselmii</i>	
			<i>Gliomastix luzulae</i>	
			<i>Penicillium brevicompactum</i>	
			<i>Penicillium glabrum</i>	
			<i>Phialophora verrucosa</i>	
P1-1B			<i>Verticillium lecanii</i>	abundant
			<i>Acremonium kiliense</i>	
			<i>Aspergillus versicolor</i>	
			<i>Myxotrichum ochraceum</i>	
			<i>Oidiodendron cereale</i>	
			<i>Oidiodendron griseum</i>	
			<i>Penicillium chrysogenum</i>	
			<i>Stachybotrys atra</i>	
			<i>Verticillium lecanii</i>	
P1-1C	<i>Oidiodendron cereale</i>	abundant	<i>Myxotrichum ochraceum</i>	abundant
			<i>Oidiodendron cereale</i>	
			<i>Stachybotrys atra</i>	
P1-1D	<i>Trichocladium opacum</i>	not abundant		
P1-1D	<i>Trichocladium opacum</i>	abundant		
P2-1	<i>Chaetomium cochlioides</i> <i>Scopulariopsis fusca</i>		<i>Aspergillus sydowii</i>	very abundant
			<i>Aspergillus versicolor</i>	
			<i>Chaetomium cochlioides</i>	
			<i>Malbranchia arcuata</i>	
			<i>Penicillium chrysogenum</i>	
			<i>Penicillium glabrum</i>	
			<i>Penicillium variable</i>	
			<i>Scopulariopsis fusca</i>	
			<i>Verticillium lecanii</i>	

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity
P2-2	Aspergillus versicolor		<i>Aspergillus ochraceus</i>	
	<i>Malbranchia arcuata</i>		Aspergillus versicolor	very abundant
	<i>Myxotrichum ochraceum</i>		<i>Malbranchia arcuata</i>	
	<i>Scopulariopsis fusca</i>		<i>Myxotrichum ochraceum</i> <i>Scopulariopsis fusca</i>	very abundant very abundant
P2-3	<i>Ascotricha chartarum</i>			
	Aspergillus versicolor			
	<i>Exophiala</i> sp.	very abundant		
	<i>Malbranchia arcuata</i> <i>Scopulariopsis fusca</i>			
M1-1	No fungi		Aspergillus versicolor	
			<i>Cladosporium sphaerospermum</i>	
			<i>Eurotium herbariorum</i>	
			<i>Penicillium chrysogenum</i>	
M1-2	unidentifiable fungal cells		<i>Cladosporium sphaerospermum</i> <i>Penicillium glabrum</i>	
M-7	Stud & Joist: fungus a species of <i>Ophiostoma</i> rarely, turn up in air sample			
M4-4	<i>Penicillium</i> sp.	small amount	<i>Penicillium corylophilum</i>	very abundant
			<i>Penicillium commune</i>	not very abundant
			<i>Penicillium glabrum</i>	uncommon
			Trichoderma viride	uncommon
M9-1			Some pink yeast	
			<i>Mucor hiemalis</i> <i>Penicillium simplissimum</i>	moderately abundant moderately abundant
M9-2	unidentifiable		<i>Penicillium commune</i>	abundant
			<i>Penicillium hirsutum</i>	abundant
M11-1	<i>Gliomastix murorum</i>	abundant	<i>Acremonium kiliense</i>	not abundant
	<i>Microascus cinereus</i>	not abundant	<i>Blastobotrys nivea</i>	moderately abundant
	<i>Myxotrichum ochraceum</i>	moderately abund	<i>Gliomastix murorum</i>	very abundant
	<i>Oidiodendron cereale</i>	moderately abund	<i>Malbranchia arcuata</i>	moderately abundant
	Stachybotrys atra	abundant	<i>Penicillium chrysogenum</i>	not abundant

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity
M11-2			<i>Acremonium psaliotae</i>	moderately abundant
			<i>Aspergillus versicolor</i>	exceedingly abundant
M12-1			<i>Aspergillus versicolor</i>	infrequent
			<i>Cladosporium cladosporioides</i>	infrequent
			<i>Pink yeast</i>	
M-13	<i>Aspergillus</i> sp. possibly <i>A. candidus</i>	abundant		
	<i>Aspergillus</i> sp. possibly <i>A. herbariorum</i>	common		
	<i>Aspergillus</i> sp. possibly <i>A. versicolor</i>	abundant		
	<i>Microascus cirrosus</i>	abundant		
	<i>Petriella setifera</i>	very abundant		
M14-1A			<i>Penicillium chrysogenum</i>	common
			<i>Penicillium variable</i>	very abundant
			* <i>P. variable</i> / <i>P. chrysogenum</i> = ca. 4/1	
M14-1B			<i>Penicillium chrysogenum</i>	very abundant
			<i>Penicillium variable</i>	common
			<i>Ulocladium botrytis</i>	common
M14-1C	<i>Malbranchia arcuata</i>	common	<i>Malbranchia arcuata</i>	very abundant
	<i>Microascus cirrosus</i>	very abundant	<i>Oidiodendron cereale</i>	not abundant
			<i>Penicillium chrysogenum</i>	not abundant
M14-2			<i>Aspergillus versicolor</i>	common
			<i>Blastobotrys nivea</i>	not abundant
			<i>Malbranchia arcuata</i>	very abundant
			<i>Oidiodendron cereale</i>	not abundant
M15-1	<i>Stachybotrys atra</i>	very abundant	<i>Chaetomium cochlioides</i>	very abundant
	<i>Sterigmatobotrys macrocarpa</i>	very abundant		
M16-1	<i>Penicillium</i> species	abundant	<i>Aspergillus versicolor</i>	common
			<i>Penicillium canescens</i>	not abundant
			<i>Penicillium chrysogenum</i>	very abundant
M20-1A	<i>Paecilomyces varioti</i>	very abundant		
			<i>Aspergillus sydowi</i>	not abundant
			<i>Blastobotrys nivea</i>	common
			<i>Gliomastix murorum</i>	not abundant
			<i>Penicillium corylophilum</i>	not abundant
			<i>Penicillium duclauxii</i>	abundant
			<i>Penicillium rugulosum</i>	very abundant
			<i>Torulomyces lagena</i>	not abundant

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity
M20-1B			<i>Blastobotrys nivea</i> <i>Penicillium corylophilum</i> <i>Penicillium duclauxii</i>	common not abundant very abundant
M20-2	<i>Aspergillus</i> sp. possibly <i>A. herbariorum</i>	abundant	<i>Aspergillus versicolor</i> <i>Penicillium chrysogenum</i> <i>Penicillium corylophilum</i>	common not abundant not abundant
M20-3	<i>Aspergillus versicolor</i>	very abundant	<i>Aspergillus versicolor</i>	not abundant
	<i>Cladosporium sphaerospermum</i>	common	<i>Cladosporium sphaerospermum</i>	abundant
	<i>Stachybotrys atra</i>	very abundant	<i>Cylindrocladium?</i>	abundant
			<i>Penicillium chrysogenum</i> <i>Stachybotrys atra</i>	not abundant common
M20-4	<i>Aspergillus</i> sp. possibly <i>A. cervinus</i>	abundant	unidentified, possibly a <i>basidiomycete</i>	1 colony
M21-4	<i>Cladosporium cladosporioides</i> some dark hyphal masses abundant insect frass	common	<i>Blastobotrys nivea</i> <i>Microsphaeropsis olivacea</i> <i>Cladosporium sphaerospermum</i> <i>Penicillium waksmanii</i> Yeast	common abundant not common very abundant abundant
M21-5	<i>Aspergillus</i> sp. possibly <i>A. cervinus</i>	very abundant	<i>Penicillium aurantiogriseum</i>	uncommon
M22-2A	<i>Cladosporium sphaerospermum</i>	very abundant	<i>Cladosporium sphaerospermum</i> <i>Penicillium chrysogenum</i>	very abundant abundant
M22-2B	a few unidentifiable fungal hyphae abundant crystalline material		<i>Cladosporium sphaerospermum</i> <i>Penicillium chrysogenum</i> <i>Penicillium variabile</i>	not common very abundant abundant
M22-2C	<i>Aspergillus</i> sp. possibly <i>A. candidus</i> <i>Scopulariopsis brevicaulis</i>	abundant not abundant	<i>Aspergillus candidus</i>	abundant
			<i>Aspergillus sydowi</i>	abundant
			<i>Aspergillus versicolor</i>	not abundant
			<i>Penicillium chrysogenum</i>	very abundant
			<i>Penicillium crustosum</i> <i>Scopulariopsis brevicaulis</i> <i>Sporothrix schenckii</i>	abundant very abundant abundant

Results of cellophane tape and swab samples

House ID	Mold - Cellophane Tape	Quantity	Mold - Swabs	Quantity
M23-1A	<i>Alternaria alternata</i>	very abundant	<i>Acremonium strictum</i>	very abundant
	<i>Gliocladium</i> sp.	very abundant	<i>Alternaria alternata</i>	very abundant
	<i>Scopulariopsis brevicaulis</i>	common	<i>Penicillium chrysogenum</i>	very abundant
	<i>Stachybotrys atra</i>	very abundant		
M23-1B	<i>Acremonium</i> sp.	abundant	<i>Geomyces pannorus</i>	very abundant
	<i>Aspergillus</i> sp. possibly <i>A. herbariorum</i>	common	<i>Penicillium chrysogenum</i>	abundant
	<i>Chaetomium murorum</i>	very abundant	<i>Phoma herbarum</i>	abundant
M23-1C			<i>Aspergillus versicolor</i>	very abundant
			<i>Penicillium chrysogenum</i>	not abundant
			Pink yeast	common
M23-1D	<i>Aspergillus</i> sp.	common	<i>Cladosporium cladosporioides</i>	not abundant
	<i>Geomyces pannorus</i>	abundant	<i>Geomyces pannorus</i>	very abundant
	<i>Scopulariopsis brevicaulis</i>	common	<i>Penicillium chrysogenum</i>	very abundant
	<i>Ulocladium botrytis</i>	common	<i>Ulocladium botrytis</i>	not abundant
M23-1E	<i>Aspergillus versicolor</i>	very abundant		
	<i>Geomyces pannorus</i>	very abundant		
	<i>Scopulariopsis brevicaulis</i>	common		
M23-2A	<i>Acremonium kiliense</i>	common	<i>Acremonium kiliense</i>	very abundant
	<i>Scopulariopsis brevicaulis</i>	abundant	<i>Cladosporium sphaerospermum</i>	common
	<i>Scopulariopsis fusca</i>	abundant	<i>Geomyces pannorus</i>	very abundant
			<i>Penicillium chrysogenum</i>	not abundant
M23-2B	<i>Alternaria alternata</i>	not abundant	<i>Scopulariopsis brevicaulis</i>	very abundant
	abundant plant fibre		<i>Acremonium strictum</i>	very abundant
			<i>Aspergillus versicolor</i>	not abundant
M24-1			<i>Cladosporium sphaerospermum</i>	not abundant
			<i>Penicillium chrysogenum</i>	not abundant
M24-2	very little mould		<i>Aspergillus versicolor</i>	not abundant
	some <i>Penicillium</i> sp.	not abundant	<i>Cladosporium cladosporioides</i>	not abundant
	plant fibres		* NB only 6 colonies on 2 plates	
M24-2	abundant plant fibres		<i>Aspergillus versicolor</i>	not abundant
	some dark fungal cells in the plant fibres		<i>Cladosporium cladosporioides</i>	very abundant
	possibly <i>Aureobasidium</i>		<i>Penicillium commune</i>	not abundant
			<i>Penicillium waksmanii</i>	not abundant
			<i>Rhizopus nigricans</i>	not abundant

APPENDIX 3
Temperature, Relative Humidity and
Wood Moisture Reading Summaries

<div>House ID</div> <div>P1</div>	<div>Basement Exposed Wood Moisture Readings</div> <table><thead><tr><th>Area</th><th>Component</th><th>Temp</th><th>WMR</th></tr></thead><tbody><tr><td>1. unfin</td><td>joist</td><td>19.2</td><td>8.50</td></tr><tr><td>2. unfin</td><td>joist</td><td>19.3</td><td>9.00</td></tr><tr><td>3. unfin</td><td>joist</td><td>20.0</td><td>9.00</td></tr><tr><td>4. unfin</td><td>joist</td><td>20.0</td><td>9.00</td></tr><tr><td>5. unfin</td><td>joist</td><td>19.8</td><td>8.50</td></tr></tbody></table> <div>Basement Wall/Floor Cavity Conditions</div> <table><thead><tr><th>Location</th><th>W/F Cavity</th><th>Temp</th><th>WMR</th><th>Corrected MC</th></tr></thead><tbody><tr><td>1</td><td>wall</td><td>18.0</td><td>11.75</td><td>16.5</td></tr><tr><td>2</td><td>wall</td><td>18.5</td><td>11.75</td><td>16.5</td></tr><tr><td>3</td><td>wall</td><td>18.6</td><td>14.50</td><td>20.7</td></tr><tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></tbody></table> <div>Molds Found</div> <div># of Species Identified: 16</div> <div># Considered Toxicogenic 3</div>	Area	Component	Temp	WMR	1. unfin	joist	19.2	8.50	2. unfin	joist	19.3	9.00	3. unfin	joist	20.0	9.00	4. unfin	joist	20.0	9.00	5. unfin	joist	19.8	8.50	Location	W/F Cavity	Temp	WMR	Corrected MC	1	wall	18.0	11.75	16.5	2	wall	18.5	11.75	16.5	3	wall	18.6	14.50	20.7	4	-	-	-	-	5	-	-	-	-	<div>House ID</div> <div>P3</div>	<div>Basement Exposed Wood Moisture Readings</div> <table><thead><tr><th>Area</th><th>Component</th><th>Temp</th><th>WMR</th></tr></thead><tbody><tr><td>1. unfin</td><td>joist</td><td>20.6</td><td>7.00</td></tr><tr><td>2. unfin</td><td>joist</td><td>21.1</td><td>7.00</td></tr><tr><td>3. unfin</td><td>joist</td><td>20.8</td><td>7.25</td></tr><tr><td>4. unfin</td><td>joist</td><td>22.4</td><td>6.50</td></tr><tr><td>5. unfin</td><td>joist</td><td>21.1</td><td>7.25</td></tr></tbody></table> <div>Basement Wall/Floor Cavity Conditions</div> <table><thead><tr><th>Location</th><th>W/F Cavity</th><th>Temp</th><th>WMR</th><th>Corrected MC</th></tr></thead><tbody><tr><td>1</td><td>wall</td><td>20.9</td><td>6.75</td><td>approx 9.0</td></tr><tr><td>2</td><td>wall</td><td>20.8</td><td>6.75</td><td>approx 9.0</td></tr><tr><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></tbody></table> <div>Molds Found</div> <div># of Species Identified: none</div> <div># Considered Toxicogenic n/a</div>	Area	Component	Temp	WMR	1. unfin	joist	20.6	7.00	2. unfin	joist	21.1	7.00	3. unfin	joist	20.8	7.25	4. unfin	joist	22.4	6.50	5. unfin	joist	21.1	7.25	Location	W/F Cavity	Temp	WMR	Corrected MC	1	wall	20.9	6.75	approx 9.0	2	wall	20.8	6.75	approx 9.0	3	-	-	-	-	4	-	-	-	-	5	-	-	-	-
Area	Component	Temp	WMR																																																																																																												
1. unfin	joist	19.2	8.50																																																																																																												
2. unfin	joist	19.3	9.00																																																																																																												
3. unfin	joist	20.0	9.00																																																																																																												
4. unfin	joist	20.0	9.00																																																																																																												
5. unfin	joist	19.8	8.50																																																																																																												
Location	W/F Cavity	Temp	WMR	Corrected MC																																																																																																											
1	wall	18.0	11.75	16.5																																																																																																											
2	wall	18.5	11.75	16.5																																																																																																											
3	wall	18.6	14.50	20.7																																																																																																											
4	-	-	-	-																																																																																																											
5	-	-	-	-																																																																																																											
Area	Component	Temp	WMR																																																																																																												
1. unfin	joist	20.6	7.00																																																																																																												
2. unfin	joist	21.1	7.00																																																																																																												
3. unfin	joist	20.8	7.25																																																																																																												
4. unfin	joist	22.4	6.50																																																																																																												
5. unfin	joist	21.1	7.25																																																																																																												
Location	W/F Cavity	Temp	WMR	Corrected MC																																																																																																											
1	wall	20.9	6.75	approx 9.0																																																																																																											
2	wall	20.8	6.75	approx 9.0																																																																																																											
3	-	-	-	-																																																																																																											
4	-	-	-	-																																																																																																											
5	-	-	-	-																																																																																																											
<div>House ID</div> <div>P2</div>	<div>Basement Exposed Wood Moisture Readings</div> <table><thead><tr><th>Area</th><th>Component</th><th>Temp</th><th>WMR</th></tr></thead><tbody><tr><td>1. unfin</td><td>joist</td><td>16.2</td><td>10.75</td></tr><tr><td>2. unfin</td><td>joist</td><td>16.0</td><td>11.00</td></tr><tr><td>3. unfin</td><td>joist</td><td>16.0</td><td>10.75</td></tr><tr><td>4. unfin</td><td>joist</td><td>15.8</td><td>12.50</td></tr><tr><td>5. unfin</td><td>joist</td><td>16.0</td><td>9.25</td></tr></tbody></table> <div>Basement Wall/Floor Cavity Conditions</div> <table><thead><tr><th>Location</th><th>W/F Cavity</th><th>Temp</th><th>WMR</th><th>Corrected MC</th></tr></thead><tbody><tr><td>1</td><td>wall</td><td>14.8</td><td>28.00</td><td>above 28</td></tr><tr><td>2</td><td>wall</td><td>14.7</td><td>29.00</td><td>above 28</td></tr><tr><td>3</td><td>wall</td><td>14.4</td><td>28.00</td><td>above 28</td></tr><tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></tbody></table> <div>Molds Found</div> <div># of Species Identified: 12</div> <div># Considered Toxicogenic 1</div>	Area	Component	Temp	WMR	1. unfin	joist	16.2	10.75	2. unfin	joist	16.0	11.00	3. unfin	joist	16.0	10.75	4. unfin	joist	15.8	12.50	5. unfin	joist	16.0	9.25	Location	W/F Cavity	Temp	WMR	Corrected MC	1	wall	14.8	28.00	above 28	2	wall	14.7	29.00	above 28	3	wall	14.4	28.00	above 28	4	-	-	-	-	5	-	-	-	-	<div>House ID</div> <div>P3</div>	<div>Basement Exposed Wood Moisture Readings</div> <table><thead><tr><th>Area</th><th>Component</th><th>Temp</th><th>WMR</th></tr></thead><tbody><tr><td>1. unfin</td><td>joist</td><td>20.6</td><td>7.00</td></tr><tr><td>2. unfin</td><td>joist</td><td>21.1</td><td>7.00</td></tr><tr><td>3. unfin</td><td>joist</td><td>20.8</td><td>7.25</td></tr><tr><td>4. unfin</td><td>joist</td><td>22.4</td><td>6.50</td></tr><tr><td>5. unfin</td><td>joist</td><td>21.1</td><td>7.25</td></tr></tbody></table> <div>Basement Wall/Floor Cavity Conditions</div> <table><thead><tr><th>Location</th><th>W/F Cavity</th><th>Temp</th><th>WMR</th><th>Corrected MC</th></tr></thead><tbody><tr><td>1</td><td>wall</td><td>20.9</td><td>6.75</td><td>approx 9.0</td></tr><tr><td>2</td><td>wall</td><td>20.8</td><td>6.75</td><td>approx 9.0</td></tr><tr><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></tbody></table> <div>Molds Found</div> <div># of Species Identified: none</div> <div># Considered Toxicogenic n/a</div>	Area	Component	Temp	WMR	1. unfin	joist	20.6	7.00	2. unfin	joist	21.1	7.00	3. unfin	joist	20.8	7.25	4. unfin	joist	22.4	6.50	5. unfin	joist	21.1	7.25	Location	W/F Cavity	Temp	WMR	Corrected MC	1	wall	20.9	6.75	approx 9.0	2	wall	20.8	6.75	approx 9.0	3	-	-	-	-	4	-	-	-	-	5	-	-	-	-
Area	Component	Temp	WMR																																																																																																												
1. unfin	joist	16.2	10.75																																																																																																												
2. unfin	joist	16.0	11.00																																																																																																												
3. unfin	joist	16.0	10.75																																																																																																												
4. unfin	joist	15.8	12.50																																																																																																												
5. unfin	joist	16.0	9.25																																																																																																												
Location	W/F Cavity	Temp	WMR	Corrected MC																																																																																																											
1	wall	14.8	28.00	above 28																																																																																																											
2	wall	14.7	29.00	above 28																																																																																																											
3	wall	14.4	28.00	above 28																																																																																																											
4	-	-	-	-																																																																																																											
5	-	-	-	-																																																																																																											
Area	Component	Temp	WMR																																																																																																												
1. unfin	joist	20.6	7.00																																																																																																												
2. unfin	joist	21.1	7.00																																																																																																												
3. unfin	joist	20.8	7.25																																																																																																												
4. unfin	joist	22.4	6.50																																																																																																												
5. unfin	joist	21.1	7.25																																																																																																												
Location	W/F Cavity	Temp	WMR	Corrected MC																																																																																																											
1	wall	20.9	6.75	approx 9.0																																																																																																											
2	wall	20.8	6.75	approx 9.0																																																																																																											
3	-	-	-	-																																																																																																											
4	-	-	-	-																																																																																																											
5	-	-	-	-																																																																																																											

<div>House ID</div> <div>M1</div>					<div>House ID</div> <div>M3</div>																																																																					
<div>Basement Exposed Wood Moisture Readings</div> <table><tr><th>Area</th><th>Component</th><th>Temp</th><th>WMR</th></tr><tr><td>1. unfin</td><td>joist</td><td>19.7</td><td>7.50</td></tr><tr><td>2. unfin</td><td>joist</td><td>20.5</td><td>6.50</td></tr><tr><td>3. unfin</td><td>joist</td><td>21.1</td><td>6.50</td></tr><tr><td>4. unfin</td><td>stud</td><td>20.4</td><td>7.25</td></tr><tr><td>5. fin</td><td>stud</td><td>21.1</td><td>7.00</td></tr></table>					Area	Component	Temp	WMR	1. unfin	joist	19.7	7.50	2. unfin	joist	20.5	6.50	3. unfin	joist	21.1	6.50	4. unfin	stud	20.4	7.25	5. fin	stud	21.1	7.00	<div>Basement Exposed Wood Moisture Readings</div> <table><tr><th>Area</th><th>Component</th><th>Temp</th><th>WMR</th></tr><tr><td>1. unfin</td><td>joist</td><td>-</td><td>6.50</td></tr><tr><td>2. unfin</td><td>joist</td><td>-</td><td>6.50</td></tr><tr><td>3. fin</td><td>stud</td><td>17.5</td><td>6.00</td></tr><tr><td>4. fin</td><td>joist</td><td>17.2</td><td>7.75</td></tr><tr><td>5. fin</td><td>stud</td><td>18.8</td><td>6.00</td></tr></table>					Area	Component	Temp	WMR	1. unfin	joist	-	6.50	2. unfin	joist	-	6.50	3. fin	stud	17.5	6.00	4. fin	joist	17.2	7.75	5. fin	stud	18.8	6.00																	
Area	Component	Temp	WMR																																																																							
1. unfin	joist	19.7	7.50																																																																							
2. unfin	joist	20.5	6.50																																																																							
3. unfin	joist	21.1	6.50																																																																							
4. unfin	stud	20.4	7.25																																																																							
5. fin	stud	21.1	7.00																																																																							
Area	Component	Temp	WMR																																																																							
1. unfin	joist	-	6.50																																																																							
2. unfin	joist	-	6.50																																																																							
3. fin	stud	17.5	6.00																																																																							
4. fin	joist	17.2	7.75																																																																							
5. fin	stud	18.8	6.00																																																																							
<div>Basement Wall/Floor Cavity Conditions</div> <table><tr><th>Location</th><th>W/F Cavity</th><th>Temp</th><th>WMR</th><th>Corrected MC</th></tr><tr><td>1</td><td>wall</td><td>18.6</td><td>8.25</td><td>11.3</td></tr><tr><td>2</td><td>wall</td><td>19.6</td><td>11.20</td><td>15.4</td></tr><tr><td>3</td><td>wall</td><td>19.3</td><td>8.75</td><td>11.8</td></tr><tr><td>4</td><td>wall</td><td>19.6</td><td>9.50</td><td>12.9</td></tr><tr><td>5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>					Location	W/F Cavity	Temp	WMR	Corrected MC	1	wall	18.6	8.25	11.3	2	wall	19.6	11.20	15.4	3	wall	19.3	8.75	11.8	4	wall	19.6	9.50	12.9	5	-	-	-	-	<div>Basement Wall/Floor Cavity Conditions</div> <table><tr><th>Location</th><th>W/F Cavity</th><th>Temp</th><th>WMR</th><th>Corrected MC</th></tr><tr><td>1</td><td>wall</td><td>19.2</td><td>7.00</td><td>9.2</td></tr><tr><td>2</td><td>wall</td><td>18.2</td><td>9.00</td><td>12.4</td></tr><tr><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>5</td><td>wall</td><td>17.7</td><td>8.25</td><td>11.4</td></tr><tr><td>6</td><td>wall</td><td>19.5</td><td>7.25</td><td>9.6</td></tr></table>					Location	W/F Cavity	Temp	WMR	Corrected MC	1	wall	19.2	7.00	9.2	2	wall	18.2	9.00	12.4	3	-	-	-	-	4	-	-	-	-	5	wall	17.7	8.25	11.4	6	wall	19.5	7.25	9.6
Location	W/F Cavity	Temp	WMR	Corrected MC																																																																						
1	wall	18.6	8.25	11.3																																																																						
2	wall	19.6	11.20	15.4																																																																						
3	wall	19.3	8.75	11.8																																																																						
4	wall	19.6	9.50	12.9																																																																						
5	-	-	-	-																																																																						
Location	W/F Cavity	Temp	WMR	Corrected MC																																																																						
1	wall	19.2	7.00	9.2																																																																						
2	wall	18.2	9.00	12.4																																																																						
3	-	-	-	-																																																																						
4	-	-	-	-																																																																						
5	wall	17.7	8.25	11.4																																																																						
6	wall	19.5	7.25	9.6																																																																						
<div>Exterior Cond's</div> <div>Time of Day</div> <div>9:45 AM</div> <div>Temperature, °C</div> <div>6.5</div> <div>Rel. Humidity, %</div> <div>58.0</div>					<div>Exterior Cond's</div> <div>Time of Day</div> <div>9:00 AM</div> <div>Temperature, °C</div> <div>2.6</div> <div>Rel. Humidity, %</div> <div>90.7</div>																																																																					
<div>Interior Cond's</div> <div>Main Flr Temp, °C</div> <div>22.8</div> <div>Main Flr RH, %</div> <div>38.1</div> <div>Room data taken</div> <div>hallway</div>					<div>Interior Cond's</div> <div>Main Flr Temp, °C</div> <div>18.9</div> <div>Main Flr RH, %</div> <div>48.0</div> <div>Room data taken</div> <div>living room</div>																																																																					
<div>Bsmt Finished Area</div> <div>Temperature, °C</div> <div>23.5</div> <div>Rel. Humidity, %</div> <div>37.0</div> <div>Room data taken</div> <div>living space</div>					<div>Bsmt Finished Area</div> <div>Temperature, °C</div> <div>15.0</div> <div>Rel. Humidity, %</div> <div>36.0</div> <div>Room data taken</div> <div>rec room</div>																																																																					
<div>Bsmt Unfinished Area</div> <div>Temperature, °C</div> <div>23.5</div> <div>Rel. Humidity, %</div> <div>37.0</div> <div>Room data taken</div> <div>living space</div>					<div>Bsmt Unfinished Area</div> <div>Temperature, °C</div> <div>18.9</div> <div>Rel. Humidity, %</div> <div>44.0</div> <div>Room data taken</div> <div>furnace room</div>																																																																					
<div>Molds Found</div> <div># of Species Identified:</div> <div>5</div> <div># Considered Toxicogenic</div> <div>1</div>					<div>Molds Found</div> <div># of Species Identified:</div> <div>none</div> <div># Considered Toxicogenic</div> <div>n/a</div>																																																																					

<div>House ID</div> <div>M2</div>					<div>House ID</div> <div>M4</div>																																																																
<div>Basement Exposed Wood Moisture Readings</div> <table><tr><th>Area</th><th>Component</th><th>Temp</th><th>WMR</th></tr><tr><td>1. unfin</td><td>joist</td><td>15.9</td><td>8.50</td></tr><tr><td>2. unfin</td><td>joist</td><td>16.0</td><td>8.00</td></tr><tr><td>3. unfin</td><td>stud</td><td>15.9</td><td>< 6</td></tr><tr><td>4. unfin</td><td>stud</td><td>15.9</td><td>6.50</td></tr><tr><td>5. unfin</td><td>stud</td><td>16.1</td><td>7.50</td></tr></table>					Area	Component	Temp	WMR	1. unfin	joist	15.9	8.50	2. unfin	joist	16.0	8.00	3. unfin	stud	15.9	< 6	4. unfin	stud	15.9	6.50	5. unfin	stud	16.1	7.50	<div>Basement Exposed Wood Moisture Readings</div> <table><tr><th>Area</th><th>Component</th><th>Temp</th><th>WMR</th></tr><tr><td>1. unfin</td><td>joist</td><td>21.1</td><td>< 6</td></tr><tr><td>2. unfin</td><td>joist</td><td>21.7</td><td>< 6</td></tr><tr><td>3. unfin</td><td>stud</td><td>21.1</td><td>< 6</td></tr><tr><td>4. fin</td><td>stud</td><td>20.8</td><td>< 6</td></tr><tr><td>5. fin</td><td>trim</td><td>21.0</td><td>6.00</td></tr></table>					Area	Component	Temp	WMR	1. unfin	joist	21.1	< 6	2. unfin	joist	21.7	< 6	3. unfin	stud	21.1	< 6	4. fin	stud	20.8	< 6	5. fin	trim	21.0	6.00												
Area	Component	Temp	WMR																																																																		
1. unfin	joist	15.9	8.50																																																																		
2. unfin	joist	16.0	8.00																																																																		
3. unfin	stud	15.9	< 6																																																																		
4. unfin	stud	15.9	6.50																																																																		
5. unfin	stud	16.1	7.50																																																																		
Area	Component	Temp	WMR																																																																		
1. unfin	joist	21.1	< 6																																																																		
2. unfin	joist	21.7	< 6																																																																		
3. unfin	stud	21.1	< 6																																																																		
4. fin	stud	20.8	< 6																																																																		
5. fin	trim	21.0	6.00																																																																		
<div>Basement Wall/Floor Cavity Conditions</div> <table><tr><th>Location</th><th>W/F Cavity</th><th>Temp</th><th>WMR</th><th>Corrected MC</th></tr><tr><td>1</td><td>wall</td><td>15.8</td><td>8.00</td><td>11.4</td></tr><tr><td>2</td><td>floor</td><td>15.7</td><td>12.50</td><td>18.1</td></tr><tr><td>3</td><td>wall</td><td>15.7</td><td>7.50</td><td>10.5</td></tr><tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>					Location	W/F Cavity	Temp	WMR	Corrected MC	1	wall	15.8	8.00	11.4	2	floor	15.7	12.50	18.1	3	wall	15.7	7.50	10.5	4	-	-	-	-	5	-	-	-	-	<div>Basement Wall/Floor Cavity Conditions</div> <table><tr><th>Location</th><th>W/F Cavity</th><th>Temp</th><th>WMR</th><th>Corrected MC</th></tr><tr><td>1</td><td>wall</td><td>20.4</td><td>7.50</td><td>9.8</td></tr><tr><td>2</td><td>wall</td><td>17.1</td><td>7.50</td><td>10.4</td></tr><tr><td>3</td><td>wall</td><td>14.8</td><td>8.50</td><td>12.2</td></tr><tr><td>4</td><td>wall</td><td>14.9</td><td>7.00</td><td>9.9</td></tr><tr><td>5</td><td>wall</td><td>16.8</td><td>7.75</td><td>10.8</td></tr></table>					Location	W/F Cavity	Temp	WMR	Corrected MC	1	wall	20.4	7.50	9.8	2	wall	17.1	7.50	10.4	3	wall	14.8	8.50	12.2	4	wall	14.9	7.00	9.9	5	wall	16.8	7.75	10.8
Location	W/F Cavity	Temp	WMR	Corrected MC																																																																	
1	wall	15.8	8.00	11.4																																																																	
2	floor	15.7	12.50	18.1																																																																	
3	wall	15.7	7.50	10.5																																																																	
4	-	-	-	-																																																																	
5	-	-	-	-																																																																	
Location	W/F Cavity	Temp	WMR	Corrected MC																																																																	
1	wall	20.4	7.50	9.8																																																																	
2	wall	17.1	7.50	10.4																																																																	
3	wall	14.8	8.50	12.2																																																																	
4	wall	14.9	7.00	9.9																																																																	
5	wall	16.8	7.75	10.8																																																																	
<div>Exterior Cond's</div> <div>Time of Day</div> <div>9:00 AM</div> <div>Temperature, °C</div> <div>-8.3</div> <div>Rel. Humidity, %</div> <div>67.0</div>					<div>Exterior Cond's</div> <div>Time of Day</div> <div>1:45 PM</div> <div>Temperature, °C</div> <div>4.2</div> <div>Rel. Humidity, %</div> <div>76.6</div>																																																																
<div>Interior Cond's</div> <div>Main Flr Temp, °C</div> <div>19.1</div> <div>Main Flr RH, %</div> <div>39.6</div> <div>Room data taken</div> <div>kitchen</div>					<div>Interior Cond's</div> <div>Main Flr Temp, °C</div> <div>21.4</div> <div>Main Flr RH, %</div> <div>35.1</div> <div>Room data taken</div> <div>living room</div>																																																																
<div>Bsmt Finished Area</div> <div>Temperature, °C</div> <div>16.2</div> <div>Rel. Humidity, %</div> <div>43.4</div> <div>Room data taken</div> <div>rec room</div>					<div>Bsmt Finished Area</div> <div>Temperature, °C</div> <div>19.5</div> <div>Rel. Humidity, %</div> <div>39.0</div> <div>Room data taken</div> <div>rec room</div>																																																																
<div>Bsmt Unfinished Area</div> <div>Temperature, °C</div> <div>17.2</div> <div>Rel. Humidity, %</div> <div>43.0</div> <div>Room data taken</div> <div>furnace room</div>					<div>Bsmt Unfinished Area</div> <div>Temperature, °C</div> <div>20.7</div> <div>Rel. Humidity, %</div> <div>37.5</div> <div>Room data taken</div> <div>furnace rm</div>																																																																
<div>Molds Found</div> <div># of Species Identified:</div> <div>none</div> <div># Considered Toxicogenic</div> <div>n/a</div>					<div>Moulds Found</div> <div># of Species Identified:</div> <div>4</div> <div># Considered Toxicogenic</div> <div>1</div>																																																																

House ID M5					House ID M7					House ID M8				
Date of Visit Nov. 16/95					Date of Visit Nov. 23/95					Date of Visit Nov. 23/95				
Year Built 1968					Year Built Aug 1993					Year Built 1994				
Year Basement Finished 1970, 1994					Year Basement Finished 1993					Year Basement Finished 1994, 1995				
Exterior Cond's					Exterior Cond's					Exterior Cond's				
Time of Day 9:05 AM					Time of Day 10:00 AM					Time of Day 2:30 PM				
Temperature, °C 0.7					Temperature, °C 0.0					Temperature, °C 2.8				
Rel. Humidity, % 75.0					Rel. Humidity, % 90.0					Rel. Humidity, % 91.3				
Basement Exposed Wood Moisture Readings					Basement Exposed Wood Moisture Readings					Basement Exposed Wood Moisture Readings				
Area Component Temp WMR					Area Component Temp WMR					Area Component Temp WMR				
1. furnace joist 17.6 6.75					1. unfin joist 21.4 < 6					1. fin backing 17.0 7.00				
2. furnace joist 17.4 6.50					2. unfin joist 21.3 < 6					1. fin joist 17.0 9.00				
3. office joist 19.2 6.00					3. unfin stud 21.5 < 6					1. fin plate 17.8 7.50				
4. office dr-jmb 20.0 6.50					4. fum joist 21.6 < 6					1. fin stud 19.8 < 6				
5. rec rm joist 19.7 6.00					5. unfin joist 21.8 < 6					1. fin stud 19.6 6.50				
Basement Wall/Floor Cavity Conditions					Basement Wall/Floor Cavity Conditions					Basement Wall/Floor Cavity Conditions				
Location W/F Cavity Temp WMR Corrected MC					Location W/F Cavity Temp WMR Corrected MC					Location W/F Cavity Temp WMR Corrected MC				
1 wall 15.0 10.50 15.0					1a wall 16.5 8.00 11.3					1 wall 15.1 8.50 12.2				
2 wall 14.2 7.00 10.0					1b wall 16.8 14.50 21.4					2 wall 13.5 7.00 10.1				
3 wall 15.8 6.75 approx 9.0					2a wall 8.7 16.00 25.6					3 wall 15.0 9.50 13.6				
4 wall 15.8 11.50 16.5					2b wall 9.1 9.00 13.8					4 wall 11.9 9.00 13.3				
5 wall 17.6 7.00 9.5					2c wall 16.4 9.50 13.4					5				
Molds Found					Molds Found					Molds Found				
# of Species Identified: none					# of Species Identified: none					# of Species Identified: none				
# Considered Toxicogenic n/a					# Considered Toxicogenic n/a					# Considered Toxicogenic n/a				
Bsmt Finished Area					Bsmt Finished Area					Bsmt Finished Area				
Temperature, °C 19.6					Temperature, °C 20.9					Temperature, °C 19.7				
Rel. Humidity, % 36.5					Rel. Humidity, % 26.9					Rel. Humidity, % 37.9				
Room data taken rec room					Room data taken rec room					Room data taken rec room				
Bsmt Unfinished Area					Bsmt Unfinished Area					Bsmt Unfinished Area				
Temperature, °C 19.7					Temperature, °C 21.9					Temperature, °C n/a				
Rel. Humidity, % 36.3					Rel. Humidity, % 26.7					Rel. Humidity, % n/a				
Room data taken furnace room					Room data taken furnace room					Room data taken n/a				
House ID M6					House ID M7					House ID M8				
Date of Visit Nov. 20/95					Date of Visit Nov. 23/95					Date of Visit Nov. 23/95				
Year Built Jul-94					Year Built 1994					Year Built 1994				
Year Basement Finished 1994					Year Basement Finished 1993					Year Basement Finished 1994, 1995				
Exterior Cond's					Exterior Cond's					Exterior Cond's				
Time of Day 11:00 AM					Time of Day 10:00 AM					Time of Day 2:30 PM				
Temperature, °C 0.4					Temperature, °C 0.0					Temperature, °C 2.8				
Rel. Humidity, % 55.6					Rel. Humidity, % 90.0					Rel. Humidity, % 91.3				
Basement Exposed Wood Moisture Readings					Basement Exposed Wood Moisture Readings					Basement Exposed Wood Moisture Readings				
Area Component Temp WMR					Area Component Temp WMR					Area Component Temp WMR				
1. wkshp joist 17.8 7.50					1. unfin joist 21.4 < 6					1. fin backing 17.0 7.00				
2. wkshp joist 16.5 6.50					2. unfin joist 21.3 < 6					1. fin joist 17.0 9.00				
3. living are joist 18.6 7.00					3. unfin stud 21.5 < 6					1. fin plate 17.8 7.50				
4. fum stud 18.9 6.50					4. fum joist 21.6 < 6					1. fin stud 19.8 < 6				
5. fum stud 19.3 7.50					5. unfin joist 21.8 < 6					1. fin stud 19.6 6.50				
Basement Wall/Floor Cavity Conditions					Basement Wall/Floor Cavity Conditions					Basement Wall/Floor Cavity Conditions				
Location W/F Cavity Temp WMR Corrected MC					Location W/F Cavity Temp WMR Corrected MC					Location W/F Cavity Temp WMR Corrected MC				
1 wall 17.3 11.50 16.22					1a wall 16.5 8.00 11.3					1 wall 15.1 8.50 12.2				
2 wall 16.2 10.00 14.11					1b wall 16.8 14.50 21.4					2 wall 13.5 7.00 10.1				
3 wall 17.1 10.00 13.98					2a wall 8.7 16.00 25.6					3 wall 15.0 9.50 13.6				
4 wall 15.0 9.50 13.59					2b wall 9.1 9.00 13.8					4 wall 11.9 9.00 13.3				
5					2c wall 16.4 9.50 13.4					5				
Molds Found					Molds Found					Molds Found				
# of Species Identified: none					# of Species Identified: none					# of Species Identified: none				
# Considered Toxicogenic n/a					# Considered Toxicogenic n/a					# Considered Toxicogenic n/a				
Bsmt Finished Area					Bsmt Finished Area					Bsmt Finished Area				
Temperature, °C 18.6					Temperature, °C 20.9					Temperature, °C 19.7				
Rel. Humidity, % 35.8					Rel. Humidity, % 26.9					Rel. Humidity, % 37.9				
Room data taken workshop					Room data taken rec room					Room data taken rec room				
Bsmt Unfinished Area					Bsmt Unfinished Area					Bsmt Unfinished Area				
Temperature, °C n/a					Temperature, °C 21.9					Temperature, °C n/a				
Rel. Humidity, % n/a					Rel. Humidity, % 26.7					Rel. Humidity, % n/a				
Room data taken n/a					Room data taken furnace room					Room data taken n/a				

House ID M9		Basement Exposed Wood Moisture Readings				
Date of Visit	Nov. 27/95	Area	Component	Temp	WMR	
Year Built	1987	1. unfin	joist	18.2	7.00	
Year Basement Finished	1987	2. unfin	joist	18.8	7.00	
Exterior Cond's		3. unfin	stair	18.8	7.00	
Time of Day	2:00 PM	4. unfin	stud	18.8	8.00	
Temperature, °C	-8.0	5. unfin	joist	19.8	7.50	
Rel. Humidity, %	79.0	Basement Wall/Floor Cavity Conditions				
Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC
Main Flr Temp, °C	19.4	1	wall	14.2	< 6	approx 10.0
Main Flr RH, %	35.2	2	wall	15.0	< 6	approx 10.0
Room data taken	dining room	3	wall	14.5	7.00	9.93
Bsmt Finished Area		4	wall	19.1	< 6	approx 10.0
Temperature, °C	17.2	5				
Rel. Humidity, %	39.2	Molds Found				
Room data taken	suite	# of Species Identified:	4			
Bsmt Unfinished Area		# Considered Toxicogenic	0			
Temperature, °C	18.3					
Rel. Humidity, %	34.8					
Room data taken	furnace room					

House ID M10		Basement Exposed Wood Moisture Readings				
Date of Visit	Nov. 28/95	Area	Component	Temp	WMR	
Year Built	1970	1. fin	stud	17.6	< 6	
Year Basement Finished	1975	2. fin	trim	18.9	< 6	
Exterior Cond's		3. unfin	joist	20.1	< 6	
Time of Day	9:00 AM	4. unfin	stud	19.9	< 6	
Temperature, °C	-8.0	5. unfin	stud	19.9	< 6	
Rel. Humidity, %	73.0	Basement Wall/Floor Cavity Conditions				
Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC
Main Flr Temp, °C	20.1	1.	wall	15.1	8.00	11.5
Main Flr RH, %	31.5	2.	wall	17.2	7.00	9.5
Room data taken	living room	3a	wall	18.5	7.50	10.1
Bsmt Finished Area		3b	wall	15.5	8.00	11.4
Temperature, °C	18.6	4	wall	17.0	9.00	12.6
Rel. Humidity, %	34.2	5	wall	15.7	8.5	12.1
Room data taken	rec room	Molds Found				
Bsmt Unfinished Area		# of Species Identified:	none			
Temperature, °C	19.5	# Considered Toxicogenic	n/a			
Rel. Humidity, %	31.6					
Room data taken	furnace					

House ID M11		Basement Exposed Wood Moisture Readings				
Date of Visit	Nov. 28/95	Area	Component	Temp	WMR	
Year Built	1921	1. fin	strap	24.0	< 6	
Year Basement Finished	1989, 1990	2. fin	stud	21.0	7.00	
Exterior Cond's		3. unfin	stud	20.3	7.00	
Time of Day	3:00 PM	4. fin	bkng	19.9	6.50	
Temperature, °C	-8.0	5. fin	joist	24.6	7.00	
Rel. Humidity, %	61.0	Basement Wall/Floor Cavity Conditions				
Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC
Main Flr Temp, °C	20.7	1a	wall	9.5	11.50	17.82
Main Flr RH, %	30.0	1b	floor	8.6	15.50	24.74
Room data taken	dining room	2	wall	10.9	10.50	15.82
Bsmt Finished Area		3	wall	11.3	8.00	12.01
Temperature, °C	20.6	4				
Rel. Humidity, %	32.2	5				
Room data taken	rec room	Molds Found				
Bsmt Unfinished Area		# of Species Identified:	11			
Temperature, °C	20.0	# Considered Toxicogenic	2			
Rel. Humidity, %	34.2					
Room data taken	furnace room					

House ID M12		Basement Exposed Wood Moisture Readings				
Date of Visit	Nov. 29/95	Area	Component	Temp	WMR	
Year Built	1984	1. unfin	joist	18.8	8.50	
Year Basement Finished	1985, 1986	2. unfin	stud	18.0	8.00	
Exterior Cond's		3. lant-rm	stud	25.7	10.00	
Time of Day	6:00 PM	4. plant-rm	strap	22.4	10.00	
Temperature, °C	-12.0	5. furn	joist	23.6	7.50	
Rel. Humidity, %	66.0	Basement Wall/Floor Cavity Conditions				
Interior Cond's		Location	W/F Cavity	Temp	WMR	Corrected MC
Main Flr Temp, °C	19.0	1a	wall	14.5	9.00	13.0
Main Flr RH, %	31.5	1b	wall	16.6	9.00	12.6
Room data taken	living	2a	wall	16.6	7.50	10.4
Bsmt Finished Area		2b	wall	17.2	7.50	10.3
Temperature, °C	18.3	3a	wall	14.7	9.00	12.9
Rel. Humidity, %	38.3	3b	wall	16.1	9.00	12.7
Room data taken	rec room	4				
Bsmt Unfinished Area		5	wall	16.8	8.00	11.2
Temperature, °C	18.0	Molds Found				
Rel. Humidity, %	38.5	# of Species Identified:	2			
Room data taken	furnace room	# Considered Toxicogenic	1			

House ID M13		Basement Exposed Wood Moisture Readings			
Date of Visit	Dec. 4/95	Area	Component	Temp	WMR
Year Built	1969	1. unfin	joist	20.1	6.50
Year Basement Finished	1985	2. unfin	joist	19.8	6.75
		3. fin	bamboard	19.8	6.75
		4. fin	bamboard	20.1	6.50
		5. unfin	stud	19.8	6.75
Exterior Cond's		Basement Wall/Floor Cavity Conditions			
Time of Day	9:00 AM	Location	W/F Cavity	Temp	WMR
Temperature, °C	-4.0	1a	wall	18.4	6.50
Rel. Humidity, %	84.0				Corrected MC
		1b	wall	19.2	6.50
		2	-	-	approx 9.0
		3	wall	14.2	11.50
		4	wall	17.0	9.00
		5	-	-	13.4
Interior Cond's		Molds Found			
Main Flr Temp, °C	20.4	# of Species Identified: 5			
Main Flr RH, %	32.2	# Considered Toxicogenic 1			
Room data taken	living room				
Bsmt Finished Area					
Temperature, °C	19.9				
Rel. Humidity, %	32.0				
Room data taken	rec room				
Bsmt Unfinished Area					
Temperature, °C	20.1				
Rel. Humidity, %	30.0				
Room data taken	furnace rm				
House ID M14		Basement Exposed Wood Moisture Readings			
Date of Visit	Dec. 4/95	Area	Component	Temp	WMR
Year Built	1970	1. fin	joist	24.7	< 6
Year Basement Finished	1995	2. fin	strap	24.6	< 6
		3. fin	dr-jamb	23.8	< 6
		4. fin	trim	23.4	< 6
		5. fin	trim	24.4	< 6
Exterior Cond's		Basement Wall/Floor Cavity Conditions			
Time of Day	4:00 PM	Location	W/F Cavity	Temp	WMR
Temperature, °C	-2.0	1	wall	16.6	< 6
Rel. Humidity, %	70.0				Corrected MC
		2	wall	19.1	10.00
		3a	wall	13.1	8.50
		3b	wall	13.1	8.00
		4	floor	19.6	11.50
		5	wall	16.0	0.52
Interior Cond's					
Main Flr Temp, °C	20.7				
Main Flr RH, %	28.6				
Room data taken	living				
Bsmt Finished Area					
Temperature, °C	20.8				
Rel. Humidity, %	31.9				
Room data taken	bedroom				
Bsmt Unfinished Area					
Temperature, °C	n/a				
Rel. Humidity, %	n/a				
Room data taken	n/a				
House ID M15		Basement Exposed Wood Moisture Readings			
Date of Visit	Dec. 5/95	Area	Component	Temp	WMR
Year Built	1988	1. fin	joist	14.2	< 6
Year Basement Finished	1988	2. unfin	joist	15.0	< 6
		3. fin	joist	15.7	< 6
		4. fin	step	15.9	7.75
		5. unfin	strap	18.8	7.00
Exterior Cond's		Basement Wall/Floor Cavity Conditions			
Time of Day	9:00 AM	Location	W/F Cavity	Temp	WMR
Temperature, °C	-14.0	1	wall	14.2	> 30
Rel. Humidity, %	80.0				Corrected MC
		2	wall	11.7	7.00
		3	wall	2.0	6.00
		4	wall	8.6	11.00
		5	-	-	17.1
Interior Cond's		Molds Found			
Main Flr Temp, °C	17.8	# of Species Identified: 3			
Main Flr RH, %	33.0	# Considered Toxicogenic 1			
Room data taken	living room				
Bsmt Finished Area					
Temperature, °C	17.4				
Rel. Humidity, %	31.4				
Room data taken	rec room				
Bsmt Unfinished Area					
Temperature, °C	17.5				
Rel. Humidity, %	30.1				
Room data taken	furnace room				
House ID M16		Basement Exposed Wood Moisture Readings			
Date of Visit	Dec. 5/95	Area	Component	Temp	WMR
Year Built	1957	1. unfin	joist	16.4	8.25
Year Basement Finished	1960, 1995	2. unfin	stud	16.4	7.25
		3. unfin	backing	16.0	7.50
		4. unfin	joist beam	16.7	6.50
		5. fin	shelf leg	16.0	< 6
Exterior Cond's		Basement Wall/Floor Cavity Conditions			
Time of Day	1:30 AM	Location	W/F Cavity	Temp	WMR
Temperature, °C	-9.0	1	wall	9.2	7.50
Rel. Humidity, %	65.0				Corrected MC
		2	wall	6.3	8.00
		3	wall	15.2	13.00
		4	-	-	19.0
		5	-	-	-
Interior Cond's		Molds Found			
Main Flr Temp, °C	19.1	# of Species Identified: 3			
Main Flr RH, %	44.6	# Considered Toxicogenic 1			
Room data taken	living room				
Bsmt Finished Area					
Temperature, °C	15.0				
Rel. Humidity, %	49.0				
Room data taken	rec room				
Bsmt Unfinished Area					
Temperature, °C	17.5				
Rel. Humidity, %	49.0				
Room data taken	furnace room				

House ID		M17	Basement Exposed Wood Moisture Readings				
Date of Visit	Dec. 6/95	Area	Component	Temp	WMR		
Year Built	1987	1. unfin	stud	18.4	6.75		
Year Basement Finished	1987, 1990	2. unfin	joist	19.5	< 6		
		3. unfin	stud	18.5	< 6		
		4. unfin	joist	20.3	6.50		
		5. unfin	strap	19.6	< 6		
Exterior Cond's		Basement Wall/Floor Cavity Conditions					
Time of Day	11:00 AM	Location	W/F Cavity	Temp	WMR	Corrected MC	
Temperature, °C	-4.0	1.	wall	10.9	< 6	approx 10.0	
Rel. Humidity, %	50.0	2.	wall	14.6	6.25	approx 9.0	
		3.	wall	18.8	< 6	approx 9.0	
		4.	wall	18.8	6.50	approx 9.0	
		5.					
Interior Cond's		Molds Found					
Main Flr Temp, °C	18.4	# of Species Identified:	none				
Main Flr RH, %	34.0	# Considered Toxicogenic	n/a				
Room data taken	living room						
Bsmt Finished Area							
Temperature, °C	16.9						
Rel. Humidity, %	35.5						
Room data taken	rec room						
Bsmt Unfinished Area							
Temperature, °C	18.0						
Rel. Humidity, %	30.7						
Room data taken	furnace room						

House ID		M19	Basement Exposed Wood Moisture Readings				
Date of Visit	Dec. 12/95	Area	Component	Temp	WMR		
Year Built	1983	1. unfin	stud	21.1	< 6		
Year Basement Finished	1989	2. unfin	stud	20.0	< 6		
		3. unfin	joist	25.2	< 6		
		4. unfin	stud	21.2	< 6		
		5. unfin	stud	21.0	< 6		
Exterior Cond's		Basement Wall/Floor Cavity Conditions					
Time of Day	6:00 PM	Location	W/F Cavity	Temp	WMR	Corrected MC	
Temperature, °C	-16.0	1.	wall	16.1	< 6	approx 9.0	
Rel. Humidity, %	54.0	2.	wall	12.5	< 6	approx 10.0	
		3.	wall	14.1	< 6	approx 10.0	
		4.	wall	18.4	< 6	approx 9.0	
		5.					
Interior Cond's		Molds Found					
Main Flr Temp, °C	25.6	# of Species Identified:	none				
Main Flr RH, %	24.0	# Considered Toxicogenic	n/a				
Room data taken	living room						
Bsmt Finished Area							
Temperature, °C	18.9						
Rel. Humidity, %	29.0						
Room data taken	rec room						
Bsmt Unfinished Area							
Temperature, °C	20.6						
Rel. Humidity, %	28.0						
Room data taken	furnace room						

House ID		M18	Basement Exposed Wood Moisture Readings				
Date of Visit	Dec. 12/95	Area	Component	Temp	WMR		
Year Built	1970	1. unfin	stud	21.1	< 6		
Year Basement Finished	1980	2. unfin	stud	22.1	< 6		
		3. fin	joist	26.2	< 6		
		4. fin	stud	22.5	< 6		
		5. unfin	joist	24.0	< 6		
Exterior Cond's		Basement Wall/Floor Cavity Conditions					
Time of Day	9:00 AM	Location	W/F Cavity	Temp	WMR	Corrected MC	
Temperature, °C	-19.0	1.	wall	15.1	10.50	15.0	
Rel. Humidity, %	55.0	2.	wall	18.1	10.00	13.8	
		3.	wall	15.9	9.50	13.5	
		4.	wall	16.8	8.00	11.2	
		5.					
Interior Cond's		Molds Found					
Main Flr Temp, °C	20.7	# of Species Identified:	none				
Main Flr RH, %	25.9	# Considered Toxicogenic	n/a				
Room data taken	living room						
Bsmt Finished Area							
Temperature, °C	18.9						
Rel. Humidity, %	30.8						
Room data taken	rec room						
Bsmt Unfinished Area							
Temperature, °C	22.0						
Rel. Humidity, %	23.0						
Room data taken	furnace room						

House ID		M20	Basement Exposed Wood Moisture Readings				
Date of Visit	Dec. 13/95	Area	Component	Temp	WMR		
Year Built	1960	1. unfin	joist	17.3	< 6		
Year Basement Finished	1986	2. unfin	stud	17.5	< 6		
		3. unfin	post	17.4	6.50		
		4. unfin	joist	27.7*	< 6		
		5. unfin	stud	21.0	< 6		
Exterior Cond's		Basement Wall/Floor Cavity Conditions					
Time of Day	5:00 PM	Location	W/F Cavity	Temp	WMR	Corrected MC	
Temperature, °C	-16.0	1.	wall	11.8	10.50	15.6	
Rel. Humidity, %	51.0	2.	wall	3.5	< 6	approx 11.0	
		3.	wall	10.4	< 6	approx 10.0	
		4.					
		5.					
Interior Cond's		Molds Found					
Main Flr Temp, °C	20.6	# of Species Identified:	16				
Main Flr RH, %	24.0	# Considered Toxicogenic	3				
Room data taken	living room						
Bsmt Finished Area							
Temperature, °C	17.8						
Rel. Humidity, %	26.0						
Room data taken	bedroom						
Bsmt Unfinished Area							
Temperature, °C	19.4						
Rel. Humidity, %	30.0						
Room data taken	furnace room						

House ID M21				
Date of Visit Dec. 14/95				
Year Built 1962				
Year Basement Finished 1970, 1993				
Exterior Cond's				
Time of Day 9:00 AM				
Temperature, °C -14.0				
Rel. Humidity, % 64.0				
Interior Cond's				
Main Flr Temp, °C 16.1				
Main Flr RH, % 49.0				
Room data taken living room				
Bsmt Finished Area				
Temperature, °C 15.6				
Rel. Humidity, % 43.0				
Room data taken rec room				
Bsmt Unfinished Area				
Temperature, °C 16.7				
Rel. Humidity, % 41.0				
Room data taken furnace room				
Basement Exposed Wood Moisture Readings				
Area	Component	Temp	WMR	
1. fin	stud	14.2	7.50	
2. fin	stud	14.2	7.50	
3. unfin	joist	21.5	< 6	
4. unfin	joist	21.2	< 6	
5. fin	closet	14.4	9.50	
Basement Wall/Floor Cavity Conditions				
Location	W/F Cavity	Temp	WMR	Corrected MC
1	wall	13.8	10.50	15.3
2	wall	6.9	9.00	14.2
3	wall	11.0	10.40	16.7
4a	wall	1.9	11.50	19.6
4b	wall	-2.1	11.50	20.6
5a	wall	11.7	9.00	13.4
5b	wall	13.2	9.50	13.9
Molds Found				
# of Species Identified: 7				
# Considered Toxicgenic 1				

House ID M23				
Date of Visit Dec. 18/95				
Year Built 1992				
Year Basement Finished 1992				
Exterior Cond's				
Time of Day 7:00 PM				
Temperature, °C -13.0				
Rel. Humidity, % 72.0				
Interior Cond's				
Main Flr Temp, °C 20.0				
Main Flr RH, % 38.0				
Room data taken living room				
Bsmt Finished Area				
Temperature, °C 17.2				
Rel. Humidity, % 37.0				
Room data taken rec room				
Bsmt Unfinished Area				
Temperature, °C 15.0				
Rel. Humidity, % 42.0				
Room data taken cold room				
Basement Exposed Wood Moisture Readings				
Area	Component	Temp	WMR	
1. fin	joist	17.9	8.00	
2. fin	joist	18.6	6.50	
3. fin	joist	18.2	7.00	
4. fin	joist	17.8	7.00	
5. fin	joist	18.2	7.00	
Basement Wall/Floor Cavity Conditions				
Location	W/F Cavity	Temp	WMR	Corrected MC
1	wall	9.6	< 6	approx 10.0
2	wall	10.1	10.00	15.2
3	wall	9.5	10.00	15.3
4	-	-	-	-
5	-	-	-	-
Molds Found				
# of Species Identified: 16				
# Considered Toxicgenic 3				

House ID M22				
Date of Visit Dec. 15/95				
Year Built 1982				
Year Basement Finished 1982, 1986				
Exterior Cond's				
Time of Day 10:00 AM				
Temperature, °C -8.0				
Rel. Humidity, % 75.0				
Interior Cond's				
Main Flr Temp, °C 19.4				
Main Flr RH, % 33.0				
Room data taken living room				
Bsmt Finished Area				
Temperature, °C 19.4				
Rel. Humidity, % 33.0				
Room data taken rec & bdrm				
Bsmt Unfinished Area				
Temperature, °C n/a				
Rel. Humidity, % n/a				
Room data taken n/a				
Basement Exposed Wood Moisture Readings				
Area	Component	Temp	WMR	
1. fin	stud	20.2	< 6	
2. fin	stud	20.3	< 6	
3. unfin	joist	20.1	< 6	
4. unfin	joist	20.4	< 6	
5. fin	closet	19.4	9.00	
Basement Wall/Floor Cavity Conditions				
Location	W/F Cavity	Temp	WMR	Corrected MC
1	wall	14.1	7.50	10.8
2	wall	12.5	9.50	14.0
3	wall	17.5	6.50	approx 9.0
4	wall	13.4	< 6	approx 10.0
5	-	-	-	-
Molds Found				
# of Species Identified: 9				
# Considered Toxicgenic 2				

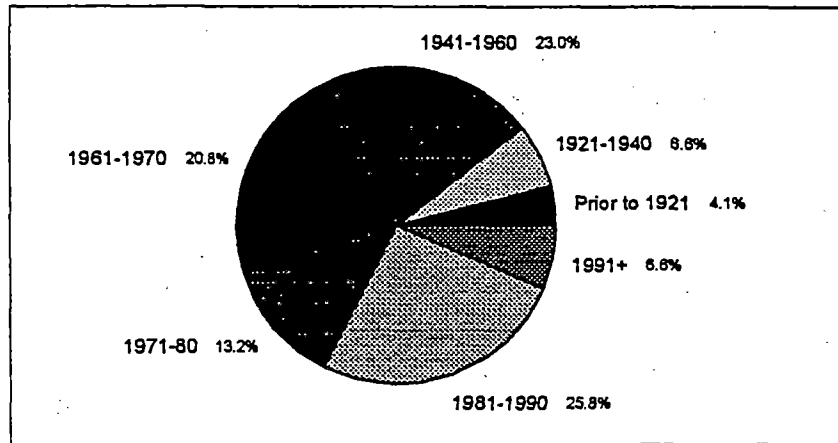
House ID M24				
Date of Visit Dec. 19/95				
Year Built 1971				
Year Basement Finished 1975, 1993				
Exterior Cond's				
Time of Day 10:00 AM				
Temperature, °C -17.0				
Rel. Humidity, % 59.0				
Interior Cond's				
Main Flr Temp, °C 21.1				
Main Flr RH, % 44.0				
Room data taken living room				
Bsmt Finished Area				
Temperature, °C 18.9				
Rel. Humidity, % 44.0				
Room data taken rec room				
Bsmt Unfinished Area				
Temperature, °C 19.4				
Rel. Humidity, % 41.0				
Room data taken furnace room				
Basement Exposed Wood Moisture Readings				
Area	Component	Temp	WMR	
1. unfin	joist	20.2	< 6	
2. unfin	stud	19.7	8.00	
3. unfin	joist	20.5	< 6	
4. unfin	stud	18.7	7.00	
5. unfin	stud	18.9	6.50	
Basement Wall/Floor Cavity Conditions				
Location	W/F Cavity	Temp	WMR	Corrected MC
1	wall	16.8	8.50	11.89
2	wall	17.2	< 6	approx 8.0
3	-	-	-	-
4	wall	30.0	< 6	approx 7.0
5	wall	13.6	< 6	approx 9.0
Molds Found				
# of Species Identified: 5				
# Considered Toxicgenic 1				

APPENDIX 4
Statistical Summary of Inspections of 405 Finished Basements

12 June 1995

STATISTICAL SUMMARY OF INSPECTIONS OF 405 FINISHED BASEMENTS

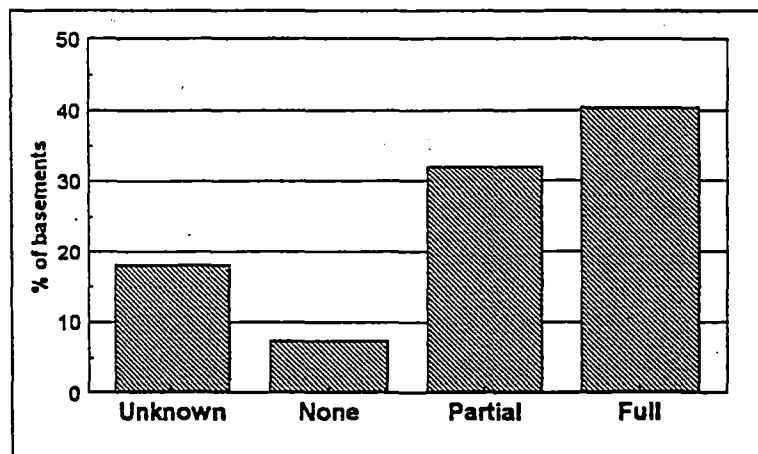
Year of house construction



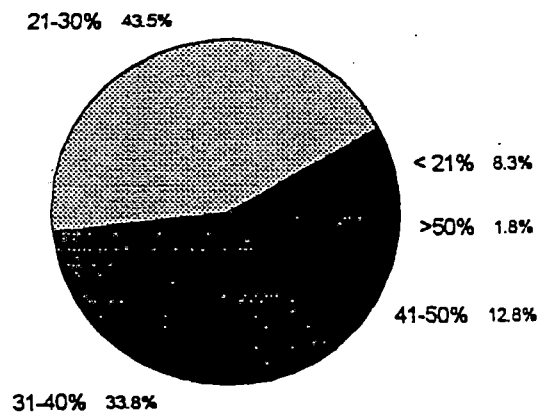
Other characteristics

- 83 % poured foundations
- 42 % have 100% wall coverage: others usually exceed 50% coverage
- Mostly drywall or wood panels for finishing: 7% still with exposed plastic or insulation
- Few basements with exterior insulation/drainage layer

Extent of wall insulation



Basement relative humidity



Are there moisture problems?

- Roughly 75% say there are no moisture problems
- Roughly 50% have some obvious evidence of past problems: spalling concrete, efflorescence, stains, mould
- About 35% have basement smell identified as "musty", "mouldy", or "earthy"

Preliminary analysis

- No real correlation of basement RH and moisture problems, evidence of problems, outdoor temperature, etc.; however, dampest basements tended to show up when outside temperatures moderate (rather than very cold)
- Older basements more apt to show problems
- Smells unrelated to type of floor covering (eg. rugs)