### Table 17.2
Summary of Protective Measures For Low- and High-Risk Jobs

<table>
<thead>
<tr>
<th>Protective Measure</th>
<th>Low Risk</th>
<th>High Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worksite preparation with plastic sheeting (6 mil thick)</td>
<td>Plastic sheet no less than 5 feet by 5 feet immediately underneath work area</td>
<td>Whole floor, plus simple airlock at door or tape door shut</td>
</tr>
<tr>
<td>Children kept out of work area</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Resident relocation during work</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Respirators</td>
<td>Probably not necessary*</td>
<td>Recommended</td>
</tr>
<tr>
<td>Protective clothing</td>
<td>Probably not necessary*</td>
<td>Recommended</td>
</tr>
<tr>
<td>Note: Protective shoe coverings are not to be worn on ladders, scaffolds, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal hygiene (enforced hand washing after job)</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>Showers</td>
<td>Probably not necessary</td>
<td>Recommended</td>
</tr>
<tr>
<td>Work practices</td>
<td>Use wet methods, except near electrical circuits</td>
<td>Use wet methods, except near electrical circuits</td>
</tr>
<tr>
<td>Cleaning</td>
<td>Wet cleaning with lead-specific detergent trisodium phosphate or other suitable detergent around the work area only (2 linear feet beyond plastic)</td>
<td>HEPA vacuum/wet wash/ HEPA vacuum the entire work area</td>
</tr>
<tr>
<td>Clearance</td>
<td>Visual examination only</td>
<td>Dust sampling during the preliminary phase of the maintenance program and periodically thereafter (not required for every job)</td>
</tr>
</tbody>
</table>

* Employers must have objective data showing that worker exposures are less than the OSHA Permissible Exposure Limit of 50µg/m³ if respirators and protective clothing will not be provided.
Paint chips are now cleaned up by sweeping. Mopping or other wet cleaning methods should be used instead.

If residents are present, the work area should be sealed off so that leaded dust does not enter the living area. Any furniture present should be moved or covered with plastic. Further details are provided in the Appendix. The possible presence of lead-based paint should be considered in all repair and maintenance work.

A lead-based paint inspection should be completed at some point in the future to determine exactly where all the lead-based paint is located so that it can be properly managed.

The Anywhere, Any State Childhood Lead Poisoning Prevention Program offers a general awareness class in lead-based paint hazards, which both the owner and the maintenance worker should attend. The program also offers the use of a HEPA vacuum and provides advice on respirators and medical surveillance and other lead-related issues (see Appendix).

The practice of examining the condition of the paint annually or upon vacancy is a good one and should be continued.

Since the paint has not yet been completely tested, it should be assumed to contain lead-based paint. The owner should tell residents to report any paint that is peeling, chipping, flaking, chalking, or otherwise deteriorating so that it can be repaired quickly and safely.

17. Interim Control Options and Estimated Costs

The costs shown below include labor, materials, worker protection, site containment and cleanup. These are only very rough estimates that may not be accurate; a precise estimate should be obtained from a certified lead-based paint abatement contractor. I would be pleased to perform clearance testing after this work has been completed at your request.

Hazard A: Window Trough Surfaces
a. Paint Film Stabilization of both frame and sash $xx/window
b. Encapsulation of Exterior Frame with a Liquid Encapsulant Coating plus sash replacement $xx/window

Hazard B: Leaded Dust On Bobby Jones’ Bedroom (Southeast Bedroom) Floor
a. Dust removal and recoating hardwood floor with polyurethane $xxx

Hazard C: Deteriorated Lead-Based Paint on the interior door leading to Bobby’s Bedroom (Southeast Bedroom)
a. Paint Film Stabilization plus rehang door for smooth operation (paint film stabilization alone without door repair is not appropriate) $xx

18. Acceptable Abatement Options and Estimated Costs

Hazard A: Window Trough Surfaces
a. Enclosure of window frame with metal panning system plus sash replacement $xx/window
b. Replacement of entire window assembly $xx/window
c. Remove all lead-based paint from entire window assembly using chemical paint removers $xx/window

Hazard B: Leaded Dust On Bobby’s Bedroom (Southeast Bedroom) Floor
a. Enclosure of floor with new subflooring and tile $xxx/room

Hazard C: Deteriorated Lead-Based Paint on the interior door leading to Bobby’s Bedroom (Southeast Bedroom)
a. Replace door and door frame $xxx
b. Encapsulate door $xxx
c. Replace door and enclose door frame $xxx
d. Remove lead-based paint from door and door frame chemically $xxx

19. Reevaluation and Monitoring Schedule

Each of these treatments will need to be reexamined periodically to make certain that they remain effective and to ensure that new lead-based paint hazards do not appear. The interim controls shown above are less expensive initially, but they may be more expensive in the long run since they need to be reevaluated more frequently. The replacement and paint removal methods are more expensive initially, but do not require any reevaluation.

The owner should monitor the condition of the paint at least annually or if there is some indication that paint might be failing. A professional reevaluation is also needed. The standard schedule for reevaluating the dwelling is shown below.

Reevaluation: Standard Reevaluation Schedule 3 contained in the HUD Guidelines applies to this property, since one of the rooms had a dust lead level greater than the standard. Therefore, the dwelling should be reevaluated in April 1995 (12 months from now). If no lead-based paint hazards are identified at that time, another reevaluation should be conducted in April 1997 (2 years later). If no lead-based paint hazards are identified at that time, no further reevaluations are needed. However, since lead-based paint may be present in the dwelling, the owner should monitor the condition of all painted surfaces at least annually or whenever other information indicates a potential problem.
Part IV: Site-Specific Lead Hazard Control Plan

20. Lead Hazard Control Option To Be Implemented in This Property

Hazard A: Window Trough Surfaces

Paint Film Stabilization of both frame and sash

Hazard B: Leaded Dust On Bobby Smith’s Bedroom (Southeast Bedroom) Floor

Dust removal and recoating hardwood floor with polyurethane

Hazard C: Deteriorated Lead-Based Paint on the interior door leading to Bobby’s Bedroom (Southeast Bedroom)

Replace door and door frame

21. Training Plan for Managers, Maintenance Supervisors and Workers

The part-time worker will attend the lead awareness class offered by the Anywhere Any State Childhood Lead Poisoning Prevention Program to learn how maintenance work can be conducted safely when dealing with lead-based paint. The owner has agreed to attend the same class. The Appendix to this report contains brochures with the relevant information.

22. Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program

The summary of this report will be provided by the owner to the residents in the dwelling. The brochure in the Appendix will be provided to the residents. The owner will explain to the resident that the lead hazards at the property will be corrected within two weeks. The dwelling will be tested after the work has been completed to make certain that it was effective. After the work has been completed and clearance established, a certificate will be appended to this report.

23. Signatures (Risk Assessor and Owner), Date and Certificate of Lead-Based Paint Compliance

_______________________________________
Joseph Smith, Owner
(date)

_______________________________________
Michael Hazard, Certified Risk Assessor
(date)
Example of Certificate of Lead-Based Paint Compliance

I hereby certify that on May 1, 1994 the dwelling located at 1234 Main St, Anywhere, Any State meets the criteria established by the Department of Housing and Urban Development for lead safety. Either no lead-based paint hazards were identified or all lead-based paint hazards have been corrected.

______________________________________________
Owner

______________________________________________
Authorized Signature

Risk Assessor License # _________________________

Expiration Date: March 31, 1996

Any State
Department of Health
Division of Childhood Lead Poisoning Prevention

App 8.1-24
Appendix 8.2

Example of a Risk Assessment Report for a
Large Multi-Family Housing Development

Part I: Identifying Information:

Lead-Based Paint Risk Assessment Report

For Home Sweet Home Apartment Building

5678 Main St.
Anywhere, Any State 300000

Prepared For:

Mr. Joseph H. Smith, Owner
4444 Podunck Way
Anywhere, Any State 300000
400-777-7777

By:

Michael L. Hazard, Certified Assessor
5678 Snowflake St.
Anywhere, Any State 300000
400-333-3333

Any State License No. 94-567
EPA Certificate No. 33456

April 19, 1994
Table of Contents

Summary

Part I: Identifying Information

Identity of dwelling(s) covered by report, identity of property(ies).
1. Risk Assessor, Name of Certificate (or License) and Number and State issuing certificate/license.
2. Property Owner Name, Address, and Phone Number.
3. Date of Report, Date of Environmental Sampling.

Part II: Completed Management, Maintenance, and Environmental Results Forms and Analyses

4. List of Location and Type of Identified Lead Hazards including an indication of which hazards are priorities (this summary should be suitable for use as notification to residents).
5. Optional Management Information (Form 5.6) (not required for homeowners).
6. Maintenance/Paint Condition Information (Form 5.2 or 5.7).
7. Building Condition (Form 5.1).
8. Brief Narrative Description of Dwelling Selection Process (not required if all dwellings were sampled).
10. Deteriorated Paint Sampling Results (Form 5.3 or 5.3a).
11. Dust Sampling Results (Form 5.4 or 5.4a).
12. Soil Sampling Results (Form 5.5).
13. Other Sampling Results (if applicable).

Part III: Lead Hazard Control Plan

14. Lead-Based Paint Policy Statement (not applicable for homeowners).
15. Name of Individual in Charge of Lead-Based Paint Hazard Control Program.
16. Recommended Changes to Work Order System and Property Management (optional, not applicable for homeowners or property owners without work order systems).
17. Acceptable Interim Control Options and Estimated Costs.
19. Reevaluation Schedule (if applicable).
20. Interim Control/Abatement to Be Implemented in This Property.
21. A Training Plan for Managers, Maintenance Supervisors, and Workers (this should include named individuals), if applicable.
22. Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program (not applicable for homeowners). Note: This section should include a discussion of how residents are to be educated about lead poisoning, before the risk assessment results are released.
23. Signatures (Risk Assessor) and Date.

Part IV: Appendix

24. All laboratory raw data.
Summary

Part I: Identifying Information

A lead-based paint risk assessment was conducted at the Home Sweet Home Apartment Building at 5678 Main St. in Anywhere, Any State 300000 for Mr. Joseph H. Smith, Owner, who is located at 4444 Podunck Way, Anywhere, Any State 300000 (400-777-7777) on April 1, 1994. The risk assessment was conducted by Michael L. Hazard, a Certified Risk Assessor (Any State License No. 94-567).

Home Sweet Home contains 438 apartments distributed through 15 stories. All the apartments are of a similar construction and have been repainted over the years in a similar fashion (the apartment owner’s maintenance crew does most of the painting). Twenty-three of the units were targeted for sampling and visual assessment for this risk assessment using the criteria established in the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. One of these 23 targeted dwellings had been recently prepared for reoccupancy.

Part II. Results

4. List of Location and Type of Identified Lead-Based Paint Hazards

The building and its paint are in relatively poor condition overall, with water leaks and structural deficiencies evident throughout. The risk assessment showed that lead hazards exist in the following locations:

- **Hazard A:** Deteriorated lead-based paint on the exterior doors, window troughs, exterior trim and on the interior kitchen and bathroom walls.
- **Hazard B:** Leaded dust on window troughs and in common hallways.
- **Hazard C:** Contaminated soil in the play area located at the front of the building and around the building perimeter.

Paint chip sampling indicated that lead-based paint is present on exterior doors, window troughs, exterior trim, and on interior kitchen and bathroom walls. Previous lead-based paint testing at this location indicated that lead-based paint was present on all interior walls and kitchen cabinets, but in no other location. A review of the testing report showed that many painted surfaces had not been tested at all. For those that were tested, no attempt had been made to correct for the substrate underneath the paint. For example, the previous report indicated that lead-based paint was present on the kitchen cabinets. However, laboratory analysis of this paint indicated that the cabinets do not in fact contain lead-based paint and therefore do not require treatment. A more complete lead-based paint testing effort is needed if the exact locations of lead-based paint is to be determined. The previous testing report should not be relied upon to determine how maintenance and other repair work should be done.

Dust testing showed that leaded dust on window troughs in all rooms sampled averaged 30,532 µg/ft^2, more than 10 times greater than the HUD standard of 800 µg/ft^2.
Soil lead levels around the perimeter of the building and in the playground in front of the building were between 3,000 - 4,000 µg/g, well above the HUD Interim Standard of 2,000 µg/g for building perimeters and 400 µg/g for play areas.

After considering a number of options, the owner has decided to use interim controls in the immediate future, since the building is scheduled for comprehensive renovation within several years. These interim controls include:

- Stabilizing the paint on all surfaces that have deteriorated lead-based paint
- Removal of leaded dust located on window troughs and in common hallways
- Covering the bare soil with new sod and planting thorny bushes around the building perimeter to prevent children from entering this area. The play area will be covered with a suitable ground liner and then covered with sand at least 12 inches deep.

Mr. Smith has chosen to use interim controls until the building is renovated, which is scheduled to occur in 1998. A lead-based paint inspection will be performed at that time with the intent of including abatement in the renovation plans. The ten maintenance workers (some of whom work in other nearby apartment buildings owned by Mr. Smith), will all be trained in lead-based paint work practices. Certain property management practices will also be adopted to ensure that the normal repair work done will not disturb those surfaces with lead-based paint.

After the interim control work has been completed, a clearance examination, including dust sampling must be completed to make certain that the dwelling is lead-safe before the family moves back into the affected rooms.

**Reevaluation:**

Because the levels of leaded dust were more than 10 times greater than the HUD standard, this property should be reevaluated according to Schedule 4 in the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. This schedule calls for a reevaluation in September 1994 (6 months from now). If no lead-based paint hazards are identified, another reevaluation is not needed until September 1995 (1 year later). Assuming no new lead-based paint hazards are identified, a final reevaluation should be performed in September 1997, according to the HUD Guidelines. If the building passes the reevaluation, no further reevaluation is required, although the owner should still monitor the condition of the paint at least annually or whenever there is information that the paint is deteriorating.

After explaining the control measures that will be undertaken, Mr. Smith has agreed to share the results of this report with the residents in the building, and to provide each family with the EPA brochure and a brochure from the Anywhere Childhood Lead Poisoning Prevention program as a way of educating the residents.
**Form 5.6**
**Management Data For Rental Dwellings**

**Part 1: Identifying Information**

Identifying Information:

Name of Building or Development: *Home Sweet Home Apartment Building*
Number of Buildings: **1**
Number of Individual Dwelling Units/Building: **438**
Number of Total Dwelling Units: **438**
Date of Construction: **1937**
Date of Substantial Rehab, if any: *None*

List of Addresses of Dwellings (attach list if more than 10 dwellings are present)

<table>
<thead>
<tr>
<th>Dwelling Unit No.</th>
<th>Address</th>
<th>No. Children Aged 0 - 6 Years Old</th>
<th>Recent Code Violation Reported by Owner?</th>
<th>Chronic Maintenance Problem?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5678 Main St. Anywhere, Any State</td>
<td>209</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>2</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>1</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>3</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>0</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>0</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>0</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>2</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>3</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>0</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

*(Other pages of this form would be included to list all 438 units)*

Record number and locations of common child play areas (on-site playground, backyards, etc.):

Number 1: *On-Site Playground in Front of Building*
Part 2: Management Information

1. List names of individuals who have responsibility for lead-based paint. Include owner, property manager (if applicable), maintenance supervisor and staff (if applicable) and others. Include any training in lead hazard control work (inspector, supervisor, worker, etc.) that has been completed. Use additional pages, if necessary.

This information will be needed to devise the risk management plan contained in the risk assessor’s report.

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Training Completed (if none, enter &quot;None&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joseph Smith</td>
<td>Owner</td>
<td>None</td>
</tr>
<tr>
<td>Madeline Fairfield</td>
<td>Property Manager</td>
<td>None</td>
</tr>
<tr>
<td>Joe Sweat</td>
<td>Maintenance Supervisor</td>
<td>None</td>
</tr>
</tbody>
</table>

2. Has there been previous lead-based paint evaluations?
   __X__ Yes _______ No (If yes, attach the report)

3. Has there been previous lead hazard control activity?
   ______ Yes __X__ No (If yes, attach the report)

4. Maintenance usually conducted at time of dwelling turnover:

   Repainting_______X_____
   Cleaning_______X_____
   Repair ____As Needed____

Comments:
The dwelling has all trash removed after the resident has left. Joe Sweat inspects the dwelling and decides whether repainting is needed or other repairs to building systems are necessary. After performing any repainting or other repairs, the floors are mopped and the kitchen counters and bathrooms cleaned. All other floors are vacuumed.

5. Employee and Worker Safety Plan

   a. Is there an occupational safety and health plan for maintenance workers?
      ______ Yes __X__ No (If yes, attach plan)

   b. Are workers trained in lead hazard recognition?
      ______ Yes __X__ No   If yes, who performed the training?
c. Are workers involved in a hazard communication program?
   ______ Yes ______ No

d. Are workers trained in proper use of respirators?
   ______ Yes ______ No

e. Is there a medical surveillance program
   ______ Yes ______ No

6. Is there a HEPA Vacuum available?
   ______ Yes ______ No

7. Are there any on-site licensed or unlicensed day-care facilities.
   ______ Yes ______ No If yes, give location __________________________

8. Planning for Resident Children with Elevated Blood Levels
   a. Who responds for the owner if a resident children with elevated blood lead levels is identified?
      Madeline Fairfield
   b. Is there a plan to relocate such children?
      ______ Yes ______ No If Yes, Where? _________________________________
   c. Do you (the owner) know if there ever has been a resident child with an elevated blood lead level?
      ______ Yes ______ No ______ No ______ Unknown

9. Owner Inspections
   a. Are there periodic inspections of all dwellings by the owner?
      ______ Yes ______ No If Yes, how often? Every year or whenever the unit is vacant
   b. Is the paint condition assessed during these inspections?
      ______ Yes ______ No

10. Do you (the owner) know if any of the dwellings have ever received a housing code violation notice?
    ______ Yes ______ No ______ Unknown If yes, describe code violation
    ________________________________

11. If previously detected, unabated lead-based paint exists in the dwelling, have the residents been informed?
    ______ Yes ______ No
Form 5.7
Maintenance Data for Rental Dwellings

Condition of Paint on Selected Surfaces (Separate Page For Each Targeted Dwelling)

<table>
<thead>
<tr>
<th>Building Component</th>
<th>Paint Condition (Intact, Fair, Poor, or Not Present)</th>
<th>Deterioration Due to Friction or Impact?</th>
<th>Deterioration Due to Moisture?</th>
<th>Location of Painted Component with Visible Bite Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Siding</td>
<td>Fair</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exterior Trim</td>
<td>Poor</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Window Troughs</td>
<td>Poor</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Exterior Doors</td>
<td>Poor</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Railings</td>
<td>Fair</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Porch Floors</td>
<td>Not Applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Porch Surfaces</td>
<td>Not Applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interior Doors</td>
<td>Fair</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Ceilings</td>
<td>Fair</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walls</td>
<td>Intact (Kitchen and Bathroom Walls are Poor)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interior Windows</td>
<td>Fair</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Interior Floors</td>
<td>Fair</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Interior Trim</td>
<td>Intact</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stairways</td>
<td>Fair</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Radiator (Or Radiator Cover)</td>
<td>Intact</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kitchen cabinets</td>
<td>Poor</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Bathroom cabinets</td>
<td>Intact</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other surfaces</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If the overall condition of a component is similar throughout a dwelling, that condition should be recorded. If a component in a couple of locations is in poor condition, but the overall condition is good or fair, the specific sites of the badly deteriorated paint should be noted. The specific locations of any component with bite marks should be recorded.

App 8.2-8
Form 5.7 (continued)

1. Painting Frequency and Methods
   a. How often is painting completed? every _______ years
   b. Is painting completed upon vacancy, if necessary?
      ___X___ Yes _____ No
   c. Who does the painting? ___X_____ Property Owner _______ Residents
      IF Residents, SKIP to Q.2
   d. Is painting accompanied by scraping, sanding, or paint removal?
      ___X___ Yes _____ No
   e. How are paint dust/chips cleaned up? (check one)
      ___X____ Sweeping _____ Vacuum _____ Mopping _____ HEPA/TSP/HEPA
   f. Is the work area sealed off during painting?
      ______ Yes ___X___ No
   g. Is furniture removed from the work area?
      ______ Yes ___X___ No
   h. If no, is furniture covered during work with plastic?
      ______ Yes ___X___ No

2. Is there a preventive maintenance program?
   ______ Yes ___X___ No

3. Describe work order system (if applicable, attach copy of work order form)

   Ms. Madeline Fairfield, property manager, receives complaints from residents and prepares
   a written work order for Mr. Joe Sweat, maintenance supervisor, who assigns the job to
   one or more individual workers.

4. How are resident complaints received and addressed? How are requests prioritized? If
   formal work orders are issued, is the presence or potential presence of lead-based paint
   considered in the work instructions?

   Resident complaints are received directly by the property manager, who then authorizes
   the maintenance supervisor to complete the necessary repairs. The presence of lead-
   based paint is not routinely considered in the repair and maintenance work.

5. Record location of dwellings recently prepared for reoccupancy.

   Apartment 234
## Form 5.1
### Building Condition Form

<table>
<thead>
<tr>
<th>Condition</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roof Missing Parts of Surfaces (tiles, boards, etc.)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Roof Has Holes or Large Cracks</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Gutter or Downspouts Broken</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Chimney Masonry cracked, bricks loose or missing, obviously out of plumb</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Exterior or interior walls have obvious large cracks or holes, requiring more than routine painting</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Exterior siding has missing boards or shingles</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Water stains on interior walls or ceilings</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Plaster walls deteriorated</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Two or more windows or doors broken, missing, or boarded up</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Porch or steps have major elements broken, missing, or boarded up</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Foundation has major cracks, missing material, structural leans, or visibly unsound</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

If the "Yes" column has 4 or more checks, the dwelling is considered to be in poor condition. Less than 4 checks in the "Yes" column means that the dwelling appears to be well maintained.
8. Dwelling Selection Process

HUD Guidelines state that for buildings with 438 apartments with a similar painting history and management history, 23 of those apartments can be selected to characterize the lead-based paint risks throughout the building. These 23 apartments were selected using a targeted approach, as defined in the HUD Guidelines. Information on maintenance history, code violations, and presence of young children was used to select those apartments likely to have the highest risks. The dwellings were not selected randomly. Walkthrough surveys could not be conducted in all 438 apartments.
9. Analysis of Previous XRF Testing

A preliminary assessment of an XRF Lead-Based Paint inspection conducted 5 years ago by Joe Crook Inspections was performed using the criteria in the HUD Guidelines. The results of this assessment indicate that the earlier results are unreliable and that further testing will be needed before any substantial renovation or disturbance of surfaces with lead-based paint.

<table>
<thead>
<tr>
<th>Review of Previous Lead-Based Paint Inspections</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Did the report clearly explain the entire testing program and include an executive summary in narrative form?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2 Did the report provide an itemized list of similar building components (testing combinations) and the percentage of each component that tested positive, negative, and inconclusive? (Percentages are not applicable for single family dwellings.)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>3 Did the report include test results for the common areas and building exteriors as well as the interior of the dwelling units?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>4 Were all of the painted surfaces that are known to exist in the dwelling units, common areas, and building exteriors included in the itemized list of components that were tested?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5 Does the owner fully comprehend the report and completely understand their responsibilities regarding further testing or hazard control?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>6 If confirmation testing (laboratory testing) was necessary, did the testing firm amend the final report and revise the list of surfaces that tested positive, negative, and inconclusive?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7 Was the unit selection process performed randomly?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8 Is the name of the XRF Manufacturer, Model Number, and Serial Number of the XRF that was used in each unit recorded in the report?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9 Did the report record the XRF calibration checks for each day that testing was performed?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10 Did the calibration checks indicate that the instrument was operating within the Quality Control Value (see chapter 7)?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11 Were three readings collected for each surface?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>12 Were substrate corrections performed (if necessary)?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>13 Were confirmatory paint chip samples collected if XRF readings were in the inconclusive range?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>14 Was the procedure that was used to collect the paint chip samples described?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>15 Was the laboratory that analyzed the paint samples identified?</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

App 8.2-12
Form 5.3
Field Sampling Form for Deteriorated Paint
(Use a Separate Page for Every Unit in Multi-Family Housing)

Name of Risk Assessor: Michael Hazard
Name of Property Owner: Joseph Smith
Property Address: 5678 Main St, Anywhere Any State 300000 Apt. No.: 9

Sampling Protocol
- All Dwellings
- Targeted
- Worst-Case
- Random

Target Dwelling Criteria (Check All That Apply)
- Code Violations
- Judged to be in Poor Condition
- Presence of 2 or More Children between Ages of 6 Months and 6 Years
- Serves as Day-Care Facility
- Recently Prepared for Reoccupancy
- Random Sampling

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Room</th>
<th>Building Component</th>
<th>Lead (µg/g or mg/cm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Southeast Child’s Bedroom  (Bobby’s Room)</td>
<td>Window Trough Frame</td>
<td>12,638 µg/g</td>
</tr>
<tr>
<td>2</td>
<td>Kitchen</td>
<td>Cabinets</td>
<td>238 µg/g</td>
</tr>
<tr>
<td>3</td>
<td>Kitchen</td>
<td>Walls</td>
<td>7,893 µg/g</td>
</tr>
<tr>
<td>4</td>
<td>Bathroom</td>
<td>Walls</td>
<td>10,487 µg/g</td>
</tr>
</tbody>
</table>

HUD Standard 5,000 µg/g or 1 mg/cm²

Sample all layers of paint, not just deteriorated paint layers
Total Number of Samples This Page: 4
Page 1 of 1

Date of Sample Collection: 4/___/94
Date Shipped to Lab: 4/___/94

Sample shipped by ____________________________
Received by ____________________________

Date Results Reported: 4/10/94

Sample analyzed by ____________________________

Approved by ____________________________

App 8.2-13
Form 5.4a
Field Sampling Form for Dust
(Composite Sampling) (A separate page is used for each unit or common area)

Name of Risk Assessor ___Michael Hazard________________________
Name of Property Owner ___Joseph Smith________________________
Property Address _5678 Main St_____________ Apt. No.____9_______

Dwelling Selection Protocol _____ All Dwellings __X___ Targeted _____ Worst-Case _____ Random

Target Dwelling Criteria (Check All That Apply)
__X___ Code Violations
__X___ Judged to be in Poor Condition
__X___ Presence of 2 or More Children between Ages of 6 Months and 6 Years
_____ Serves as Day-Care Facility
_____ Recently Prepared for Reoccupancy
_____ Random Sampling

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Record Name of Rooms Used by Owner or Resident to be Included in Sample</th>
<th>Dimension¹ of Surface Sampled in Each Room (inches x inches)</th>
<th>Total Surface Area Sampled (ft²)</th>
<th>Type of Surface Sampled</th>
<th>Is Surface Smooth and Cleanable?</th>
<th>Lab Result (µg/ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Kitchen, Living Room, Child's Bedroom, 2nd Bedroom</td>
<td><em>12</em> x <em>12</em></td>
<td>4</td>
<td>Smooth Floors</td>
<td>Yes</td>
<td>124</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>12</em> x <em>12</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>12</em> x <em>12</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Kitchen, Living Room, Child's Bedroom, 2nd Bedroom</td>
<td><em>3</em> x <em>33.5</em></td>
<td>2.97</td>
<td>Interior Window Sills</td>
<td>Yes</td>
<td>336</td>
</tr>
<tr>
<td>3</td>
<td>Kitchen, Living Room, Child's Bedroom, 2nd Bedroom</td>
<td><em>2.4</em> x <em>33.5</em></td>
<td>2.30</td>
<td>Window Troughs</td>
<td>No</td>
<td>30,456</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>2.5</em> x <em>33.5</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>2.5</em> x <em>33.5</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Measure to the nearest 1/8 inch

Total Number of Samples This Page ___3___
Page ___1___ of ___27___

Date of Sample Collection __4__/__1__/__94__ Date Shipped to Lab __4__/__1__/__94__

Shipped by ________________________________ (signature) Received by ________________________________ (signature)

HUD Standards: 100 µg/ft² (floors), 500 µg/ft² (interior window sills), 800 µg/ft² window troughs

App 8.2-14
**Form 5.4a**  
Field Sampling Form for Dust  
(Composite Sampling)

Name of Risk Assessor: Michael Hazard
Name of Property Owner: Joseph Smith
Property Address: 5678 Main St Apt. No. COMMON AREAS

Dwelling Selection Protocol:  
- All Dwellings  
- Targeted  
- Worst-Case  
- Random

Target Dwelling Criteria (Check All That Apply):
- Code Violations
- Judged to be in Poor Condition
- Presence of 2 or More Children between Ages of 6 Months and 6 Years
- Serves as Day-Care Facility
- Recently Prepared for Reoccupancy

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Record Name of Rooms Used by Owner or Resident to be Included in Sample</th>
<th>Dimension(^1) of Surface Sampled in Each Room (inches x inches)</th>
<th>Total Surface Area Sampled (ft(^2))</th>
<th>Type of Surface Sampled</th>
<th>Is Surface Smooth and Cleanable?</th>
<th>Lab Result (µg/ft(^2))</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-1 1st Floor Hallway</td>
<td><em>12</em> x <em>12</em></td>
<td>4</td>
<td>Smooth Floors</td>
<td>Yes</td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>C-1 5th Floor Hallway</td>
<td><em>12</em> x <em>12</em></td>
<td>4</td>
<td>Smooth Floors</td>
<td>Yes</td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>C-1 9th Floor Hallway</td>
<td><em>12</em> x <em>12</em></td>
<td>4</td>
<td>Smooth Floors</td>
<td>Yes</td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>C-1 13th Floor Hallway</td>
<td><em>12</em> x <em>12</em></td>
<td>4</td>
<td>Smooth Floors</td>
<td>Yes</td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>C-2 1st Floor Hallway</td>
<td><em>3</em> x <em>33.5</em></td>
<td>2.97</td>
<td>Window Troughs</td>
<td>No</td>
<td>47,894</td>
<td></td>
</tr>
<tr>
<td>C-2 5th Floor Hallway</td>
<td><em>3.25</em> x <em>33.5</em></td>
<td>2.97</td>
<td>Window Troughs</td>
<td>No</td>
<td>47,894</td>
<td></td>
</tr>
<tr>
<td>C-2 9th Floor Hallway</td>
<td><em>3.25</em> x <em>33.5</em></td>
<td>2.97</td>
<td>Window Troughs</td>
<td>No</td>
<td>47,894</td>
<td></td>
</tr>
<tr>
<td>C-2 13th Floor Hallway</td>
<td><em>3.25</em> x <em>33.5</em></td>
<td>2.97</td>
<td>Window Troughs</td>
<td>No</td>
<td>47,894</td>
<td></td>
</tr>
<tr>
<td>C-3 1st Floor</td>
<td>8 x 12</td>
<td>2.67</td>
<td>Stair Treads</td>
<td>No</td>
<td>336</td>
<td></td>
</tr>
<tr>
<td>C-3 5th Floor</td>
<td>8x12</td>
<td>2.67</td>
<td>Stair Treads</td>
<td>No</td>
<td>336</td>
<td></td>
</tr>
<tr>
<td>C-3 9th Floor</td>
<td>8x12</td>
<td>2.67</td>
<td>Stair Treads</td>
<td>No</td>
<td>336</td>
<td></td>
</tr>
<tr>
<td>C-3 13th Floor</td>
<td>8x12</td>
<td>2.67</td>
<td>Stair Treads</td>
<td>No</td>
<td>336</td>
<td></td>
</tr>
<tr>
<td>C-4 1st Floor</td>
<td><em>12_x_12</em></td>
<td>4</td>
<td>Landings</td>
<td>No</td>
<td>16,456</td>
<td></td>
</tr>
<tr>
<td>C-4 5th Floor</td>
<td><em>12_x_12</em></td>
<td>4</td>
<td>Landings</td>
<td>No</td>
<td>16,456</td>
<td></td>
</tr>
<tr>
<td>C-4 9th Floor</td>
<td><em>12_x_12</em></td>
<td>4</td>
<td>Landings</td>
<td>No</td>
<td>16,456</td>
<td></td>
</tr>
<tr>
<td>C-4 13th Floor</td>
<td><em>12_x_12</em></td>
<td>4</td>
<td>Landings</td>
<td>No</td>
<td>16,456</td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) Measure to the nearest 1/8 inch

Total Number of Samples This Page: 4

Page 2 of 27

Date of Sample Collection: 4/1/94  
Date Shipped to Lab: 4/1/94  
Date Received by Lab: 4/1/94

HUD Standards: 100 µg/ft\(^2\) (floors), 500 µg/ft\(^2\) (interior window sills), 800 µg/ft\(^2\) window troughs

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**App 8.2-15**