# Lead Protection Work Plan

(Required by WAC 296-155-17611 for construction or abatement projects when levels will exceed the permissible exposure limit)

***PROCEDURE****:*

* *Consult with the Environmental Health and Safety office*
* *Provide written documentation as indicated below.*
* *Inspect each piece of equipment prior to use to be sure it is in working order.*
* *Train all employees as required. Inform contractors working in the area.*
* *Only employees with baseline blood lead levels may perform abatement work.*
* ***Keep a copy of this plan on the work-site for the entire work duration.***
* *A copy of the completed plan is sent to the Environmental Health and Safety office.*

Work Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Work Order Number: \_\_\_\_\_\_\_\_

Department: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prepared by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Prepared: \_\_\_\_\_\_\_\_\_\_\_\_\_

Duration of Work: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reviewed by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date reviewed: \_\_\_\_\_\_\_\_\_\_\_\_\_

## 1. Location of Project:

This job will take place at:

A previous lead inspection of this location by

(name of person who inspected or name of firm) revealed that lead hazards are present in the following locations:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 These building components are coated with lead-based paint and represent a hazard to workers who may disturb it during lead hazard control, renovation, or maintenance activities.

## 2. Brief Description of Job

This job will involve the following lead hazard reduction measures (complete all that apply):

Replacement of (name all components)

Enclosure of (name all components)

Paint Removal of (name all components)

Encapsulation of (name all components)

Paint Film Stabilization of (name all components)

Friction Surface Treatments of (name all components)

Impact Surface Treatments of (name all components)

Dust Removal in the following areas (name all areas)

# **Job Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

## 3. Schedule

Work will proceed according to the following schedule (name all tasks to be completed on the first day):

Day 1: Initial set up, followed by:

Daily cleanup:  Wet mopping  HEPA vacuuming  Other

Day 2: Tasks

Day 3: Tasks

*\*List additional days on reverse or a separate page*

Last Day: Tasks

Final Cleanup and Clearance Examination

The job is expected to start on (date) and end on (date). This Work Plan takes effect immediately on \_\_\_\_\_\_\_\_\_\_\_\_ (date).

The Competent Person (see Section 6) will conduct work site visual inspections on a daily basis.

## 4. Equipment and Materials

|  |  |  |  |
| --- | --- | --- | --- |
|  HEPA Vacuums |  Cleaning Detergents |  Protective Clothing |  Cotton Work Gloves |
|  Electric Power Saws |  Hammers |  Wrecking Bars |  Pry Bars |
|  Screwdrivers |  Plastic Sheeting |  Metal Scrapers |  Paint Rollers |
|  Rollers |  Brushes |  Butyl Rubber Gloves |  Respirators |
|  Cutting Shears |  Mops |  Plastic Sheeting |  Paint Brushes |
|  Compressed Air  Powered Water Pumps |  Chemical Strippers |  |  |

## 5. Crew

The work will be completed by a crew of (insert number) workers. Crew assignments are as follows:

NAME 1 (task)

NAME 2 (task)

NAME 3 (task)

## 6. Competent Person

(name), a certified lead abatement supervisor, will be on-site at all times and will act as the competent person for occupational health and safety issues. The Lead

Supervisor License (or certificate) number is: . The Lead Supervisor will conduct daily inspections of the work areas to ensure that control measures, work practices, personal protective equipment, and hygiene facilities are used as prescribed in this document.

# **Job Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

## 7. Control Measures

The primary control methods for this project are (check all that apply):

|  |  |
| --- | --- |
|  Method substitution (building component replacement, enclosure) |  Local exhaust ventilation (needle guns, vacuum blasting |
|  Wet methods |  On-the-job training |
|  Wrapping materials to be discarded in plastic |  HEPA Vacuums |
|  Respiratory protection |  Containment (use of plastic barriers) |
|  General room ventilation |  Paper barrier (peel-away process) |

## 8. Technology Considered In Meeting The Permissible Exposure Limit

The document, *Housing and Urban Development (HUD) Guidelines for Evaluation and Control of Lead Hazards in Housing and Protecting Workers and Their Communities From Lead Hazards: A Guide for Protective Work Practices*, published by the Society of Occupational and Environmental Health and other publications were reviewed to determine the appropriate engineering controls to be used in this project. The only specialized equipment which will be utilized for this project are:

 HEPA-filtered vacuum cleaners and 

(name all special equipment).

## 9. Respirators

All individuals in the work area will be provided with a NIOSH/MSHA approved half-mask air-purifying respirator equipped with HEPA cartridges or a powered air-purifying respirator (if so requested).

In the unlikely event that extremely high concentrations of lead are anticipated or found (over 500 milligrams per cubic meter of air over an eight-hour period), appropriate respiratory protection will be provided. Respirators are provided in the context of a complete respiratory protection program; the written respirator program is available in the *Safety Information Book*, found in each department.

Respirators will be required during (names phases of job for which respirators will be required):

Respirator used during other activities, including initial setup (laying down plastic for containment) and enclosure and encapsulation after surface preparation is not necessary, **unless** other workers nearby (same interior room or outside wall) are performing activities for which respirators are required.

## 10. Protective Clothing

Disposable protective clothing will be worn at all times inside the work area. Protective clothing will be made of breathable fabric to reduce the potential for worker heat stress. If visibly contaminated with dust or paint chips, protective clothing will be HEPA vacuumed off before it is removed. If personal clothing should become contaminated, it is placed in a plastic bag and the Environmental Health and Safety office is consulted regarding appropriate procedures.

## 11. Hygiene Facilities

Hand washing facilities will be used to decontaminate workers, since leaded dust levels are expected to be low. The facilities will be located in . Hands and face will be washed before all breaks and at the end of the day. Wastewater will be collected, pre-treated on site with filtration, and disposed of in accordance with prior arrangements made with the Bellingham Public Works Department.

# **Job Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

## 12. Air Monitoring Data

As available, previous data for lead hazard control projects conducted with similar controls, environmental conditions, personnel and methods is reviewed.

 Air sampling will be conducted by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (name of person).

 Air sampling will not be performed on this job, since typical exposures have already been established for this type of work by the Environmental Health and Safety office. Based on these results, the major exposures to lead will occur during \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(name tasks during which substantial exposures are likely to occur).

In previous work conducted by Western using the same methods, **maximum** personal exposures measured for various activities were:

Maximum Exposure (ug/m3) Task

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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These data are available for inspection at the Environmental Health and Safety office.

The environmental conditions in the previous projects closely resemble the current location. These maximum exposures are expected to represent “worst case” exposures because they did not include breaks or set up time; it is expected that 8-hour time-weighted average exposures on this job will be lower than these figures. However, worker respiratory protection requirements will be based on the maximum exposures to allow for unexpected variations.

## 13. Medical Surveillance Program

A medical surveillance program is in place for this work crew. It is supervised by Whatcom Occupational Health, 3015 Squalicum Parkway, Bellingham, WA 676-1693.

Worker blood lead levels are measured initially and periodically. Workers’ blood lead increases of 10 ug/dl or more or any blood lead level greater than 25 ug/dl will trigger an investigation of protective equipment and work practices. All workers on this project are informed of their blood lead levels as soon as they are received.

## 14. Training

The following workers will participate in this project. They have been trained in the hazards of lead and how to protect themselves. The training was conducted by the Environmental Health and Safety office.

List Worker’s Names Who Were Trained Date Trained

## 15. Lead-Containing Material Disposal

Materials containing lead will be disposed of in accordance with federal and state regulation. Contact the Environmental Health and Safety office to arrange proper disposal. Lead-containing materials are to be handled as follows on site \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.