



Department of Health and Human Services, Environmental Health Division

Auburn Office: 3091 County Center Drive, Suite 180, Auburn, CA 95603 (530) 745-2300

Tahoe Office: 775 N Lake Blvd, Suite 203, Tahoe City, CA 96145 (530) 581-6240

APPENDIX E

Template Work Plan

Alternative Fire Debris Removal Program Standard Work Plan Template

To ensure safety to workers, the public and the environment, property owners, contractor and consultants must follow proper protocol when removing structural ash and debris left from the Mosquito Fire. The County is offering two ways for property owners to manage the fire debris and ash from the wildfire disaster: 1) participate in the Government Program or 2) submit the Alternative Fire Debris Removal Program Application (Alternative Program Application) and Work Plan to Placer County Environmental Health.

Property owners who choose not to participate in the Government Program (or who have qualifying structures on the property but are not eligible for the Government Program) will need to submit the Alternative Program Application and Work Plan application to Placer County Environmental Health. Property owners/contractors may begin debris removal once Environmental Health has approved the application and work plan.

If a property did **not** include a qualifying structure (120 square feet or more), the property owner is not required to complete the Alternative Program Application. These property owners should contact Placer County Environmental Health to obtain a certificate to bring ash and debris to Western Regional Landfill.

Property owners/contractors must complete debris removal and cleanup to the Government Program standard, as required by the urgency ordinances approved by local government. These standards are established to ensure protection of public health and the environment. This document is a standard work plan template for the Alternative Fire Debris Removal Program work plan.

Complete and submit both this standard work plan and the Alternative Program Application to Placer County Environmental Health located 3091 County Center Dr., Auburn, CA, 95603 or email it to envhealth@placer.ca.gov. The Alternative Program Work Plan must be submitted within 60 days of the submission of the Alternative Program Application to comply with Phase II Debris Removal requirements. The Work Plan shall be provided to the contractor performing debris removal and consultant performing soil testing so they can perform the work in a safe, complete and accurate manner. The approved Work Plan must be on-site and followed by all contractors, sub-contractors and soil consultants.

Identify/discuss proposed equipment material staging areas:

Identify/discuss Site Health and Safety Protocols and Traffic Control:

If applicable, damaged water wells and/or water lines on property will be addressed in the following manner:

If applicable, damaged septic systems and/or sewer lines on property will be addressed in the following manner:

Attach Photos and Diagrams of ash footprint, other property specific hazards (swimming pools, large vehicles), water and electrical lines, if available.

1.4 REQUIRED Notifications / Permits

The following notifications will be made and permits obtained:

Underground Service Alert (USA) – Call 811 Dig Alert prior to digging.

Obtain approval of your Alternative Program Application from:
Placer County Environmental Health
3091 County Enter Dr., Auburn, CA, 95603
Email: EnvHealth@placer.ca.gov
Phone: (530) 745-2353

2.0 Site Assessment

2.1 Site Testing and Analysis Plan (Asbestos and Soil)

A certified asbestos consultant and soil consultant will be hired to test the site. Site testing and analysis for asbestos and soil will be addressed in the following manner:

Submit a report of the asbestos survey with analytical reports to Placer County Environmental Health to obtain authorization for the remaining ash and debris on-site to be disposed of at Western Regional Landfill

2.2 Foundation Analysis and Plan

In general, the structural integrity of concrete and masonry can be adversely affected in fire situations, especially when the structure is completely consumed by the fire. The properties of the material may be irreversibly altered deeming it unsatisfactory for reuse in supporting a rebuilt structure.

Property owners have two options:

1. Completely remove and dispose of foundation,
2. If foundation is to remain in place, testing, engineer's certification and approval from the County Building Division is required.

Structural foundations on the property will be addressed in the following manner:

3.1 Hazardous Waste and Asbestos Removal

3.2 Hazardous Waste and Asbestos Removal

During Phase I of Consolidated Fire Debris Removal, teams of Placer County Environmental Health staff and experts from the Department of Toxic Substance Control inspected the property and removed any identifiable and accessible household hazardous waste that may pose a threat to human health, animals, and the environment such as batteries, oil, propane tanks, visible bulk asbestos, and paints. However, some hazardous materials and/or asbestos or asbestos containing materials (ACM) may still be present on the property and pose a threat to public health and the environment. Proper protection should be worn when handling, sorting, and transporting these materials (sturdy footwear, gloves, respiratory protection).

3.3 Hazardous Waste and Household Hazardous Waste Removal

All remaining hazardous waste and household hazardous waste (HHW) shall be identified and disposed by a certified hazardous waste contractor. Household hazardous wastes (batteries, propane tanks, paint, gasoline cans, cleaning products, pesticides, fluorescent light bulbs, etc.) must be identified, segregated, and disposed of properly.

Hazardous Waste Handling and Removal Procedures

Certified Hazardous Materials/Waste Contractor

Name:

License No.:

Disposal and/or Recycling Facility(s)

Submit a report of the hazardous waste survey and disposal documentation for additional materials found on the property to Placer County Environmental Health as proof of completion. Hazardous Waste must be disposed of at a licensed Hazardous Waste disposal facility.

3.4 Asbestos Removal

Asbestos or ACM requires assessment by a Certified Asbestos Consultant. **This must be completed for all properties participating in the Alternative Program.** Asbestos and asbestos containing material must be removed by a licensed Asbestos Abatement Contractor. If bulk loading ACM, the bin or container used for transport shall be double-lined with 10-mil poly in such a way that once loaded both layers can be sealed up independently (“burrito-wrap method”).

Asbestos Handling and Removal Procedures

Certified Asbestos Consultant hired to test the site

Name:

License No.:

Asbestos Removal Contractor
Name: License No.:
Disposal Facility(s)

3.5 Fugitive Dust Control

Property owners or their contractors must provide water or an approved dust palliative, or both, to prevent a dust nuisance at the site. Dust resulting from performance of the work will be controlled at all times in a manner that does not generate runoff. Dust Control Methods include:

- **Control 1-** Water or an approved dust palliative, or both, will be used to prevent dust nuisance at each site. Each area where ash and debris are to be removed will be pre-watered with a fine spray nozzle in advance of initiating debris removal and as needed during the removal.
- **Control 2-** All loads shall be covered with a tarp; this includes metal debris. Ash and debris loads shall be fully encapsulated with 6- 10-mil plastic (“burrito wrap” method). Concrete loads are exempt from a tarp provided the loads are wetted prior to leaving. If concrete loads generate dust, then the loads must be wetted and covered.
- **Control 3-** All waste material that is not disposed of at the end of each workday will be consolidated, sufficiently wetted, and/or covered to prevent the offsite migration of contaminants.
- **Control 4-** All visibly dry disturbed soil surface areas of operation should be watered to minimize dust emissions during performance of work.
- **Control 5-** Speeds must be reduced when driving on unpaved roadways.
- **Control 6-** Procedures will be implemented to prevent or minimize dirt, soil or ash contaminating roadways, neighboring parcels or creating an airborne health hazard.

In addition to the above listed methods, dust from debris removal activities on the property will be addressed in the following manner:

4.0 Debris Removal and Disposal / Recycling

Remove ash, debris, contaminated soil, metals and concrete from the site and dispose of properly. Metals and concrete shall be recycled if possible. Appliances and vehicles shall be handled properly to meet the requirements of metals recycling facilities. All waste shall be disposed of at an approved location from the list provided, or at other locations authorized to accept such waste. (See Appendix C in Guidelines, Templates and Resource List for Property Owners, Contractors and Consultants).

Debris shall be handled in the following manner:

4.1 Ash, Fire Debris and Soil
4.2 Metals Including Vehicles and Appliances
4.3 Concrete, Brick & Masonry

Western Regional Landfill will need a certificate for disposal of fire debris and ash from Placer County Environmental Health.

5.0 Soil Grading and Erosion Control

5.1. Description of Grading

After burn ash and debris are cleaned from the property to a level of visually clean, remove 3 to 6 inches of soil from the impacted area. Soil shall be properly disposed of as described in 4.1 above.

5.2 Description of Erosion Controls

When active fire ends it leaves behind bare dirt or decreased vegetative cover. Because of the loss of vegetation, the top layer of soil becomes loosened, making it vulnerable to increased runoff, erosion and sedimentation. Erosion and sediment stabilization practices will be implemented to keep sediment and debris from impacting homes. Erosion and sediment stabilization techniques to be used are listed below and are consistent with recognized Best Management Practices and outlined in the *Guidelines, Templates, and Resource List* provided.

5.2 Description of Erosion Controls

6.0 Confirmation Sampling

Initial Screening Criteria and protocols will be established in consultation with the Government Program for soil confirmation sampling after completion of visible cleanup of properties. These are initial health screening criteria in the absence of background data. Testing of metals must be performed by EPA Lab Method 6020. A qualified environmental consultant, professional engineer, or professional geologist with experience in soil investigations, shall collect soil samples from a depth of 0-3 inches for confirmation sampling and compare results to cleanup goals. Three samples shall be taken at a depth of 3-9 inches outside the ash footprint (20 ft. minimum) to act as background samples to determine if naturally occurring levels of any metals tested are above the cleanup goals. If samples from the ash footprint are below the cleanup goals then the lab will not need to test the background samples. If sample results for any metals are above the cleanup goals but are at or below the background sample results, this must be adequately explained by your soil consultant in the final testing report.

Soil sample proposed locations shall have the required 5-point composite samples evenly distributed throughout the structural footprint. Collecting composite samples in linear rows may make it easier to localize over-excavation if certain areas do not pass the health screening criteria for soils. Include calculations for determination of each structures ash foot print. Soil sampling is required beneath all burned structures on properties regardless of size (e.g. a small 10 foot by 10 foot shed would require one composite sample if there are additional qualified structures on site).

If proposing to keep a slab, the perimeter of the slab must be scraped and composite samples collected one to two feet from the edge of the slab. A minimum of four composite samples shall be collected around the slab (one on each side) however, additional composite samples will be required based on the calculated for the square footage of the structure (i.e. a 4,500 square foot structure would require five samples). The only exception for perimeter sampling is in area of a non-porous surface (driveway, etc.) adjacent to the slab (detached garage, etc.).

Attach a drawing showing the ash footprint(s) and anticipated soil sample locations.

Soil Consultant Collecting Samples

Name:
License No.
State-certified Laboratory
Name:
Phone:

The Government Program will establish health screening criteria for soils based upon a background study. Once established this information will be made available to those participating in the Alternative program and Alternative Program will adopt those clean up goals/health screening levels. Please contact Placer County Environmental Health for additional information and direction.

Initial Health Screening Criteria for Soil		
Analyte	Health Screening Level mg/Kg	Cleanup Level
Antimony	30	Health Screen
Arsenic	0.07	Health Screen
Barium	5,200	Health Screen
Beryllium	15	Health Screen
Cadmium	1.7	Health Screen
Chromium	36,000	Health Screen
Cobalt	23	Health Screen
Copper	3,000	Health Screen
Lead	80	Health Screen
Mercury	5.1	Health Screen
Molybdenum	380	Health Screen
Nickel	490	Health Screen
Selenium	380	Health Screen
Silver	380	Health Screen
Thallium	5	Health Screen
Vanadium	390	Health Screen
Zinc	23,000	Health Screen
Final Report		
After implementation of the approved work plan, the Alternative Fire Debris Removal Program Cleanup Completion Certification, along with a Final Report shall be submitted to		

Placer County Environmental Health. Information and documentation included in the Final Report will follow the outline provided in Appendix B of the Guidelines, Templates and Resource List for Property Owners, Contractors and Consultants.

7.0 Attachments (Vicinity Map, Plan Maps, Photographs, Drawings, Laboratory Test Results, Etc.