H-GAC 2012 DEBRIS PREPAREDNESS WORKSHOP SERIES

SAVE THE DATE: AUGUST 2, 2012

AGENDA:

RECENT DROUGHT AND WILDFIRE INCIDENTS
THREAT AND VULNERABILITY ANALYSIS
EXAMINATION OF SPECIAL DEBRIS PROGRAMS
UNIQUE CONSIDERATIONS
DEBRIS STREAMS
ENVIRONMENTAL CONSIDERATIONS

LOCATION:

H-GAC CONFERENCE ROOM A 3555 TIMMONS LANE, HOUSTON, TX

TIME:

8:30 A.M. TO 12:30 P.M.
REFRESHMENTS WILL BE PROVIDED.



Workshop 3: Severe Drought and Wildfire



WORKSHOP CURRICULUM SEVERE DROUGHT AND WILDFIRE

Workshop Objectives

The purpose of this workshop is to discuss the impacts of severe drought conditions and wildfires and to examine the unique aspects of debris operations following these events.

Workshop Agenda

Part 1 – Introduction

Format: Interactive Lecture

- Recent drought and wildfire conditions
- Disaster declarations for drought and wildfires

Part 2 – Hazard Analysis

30 Minutes

15 Minutes

Format: Interactive Lecture & Large Group Discussion

- Drought characteristics and affects
- Wildfire characteristics and effects
- Open discussion: mitigation strategies for drought and wildfire

Part 3 – Federal Assistance Programs

45 Minutes

Format: Interactive Lecture & Large Group Discussion

- FEMA Fire Management Assistance Grant
- FEMA Public Assistance Program
- FEMA Hazard Mitigation Grant Program

DDELAZ	45 881 4
BREAK	15 Minutes

Part 4 – Case Study: Bastrop, Texas Wildfires

30 Minutes

Format: Interactive Lecture & Large Group Discussion

- Drought Conditions
- Operations and Challenges
- Endangered Species

Part 5 – Debris Operations for Wildfires

30 Minutes

Format: Interactive Lecture

- Debris operation timeline and damage assessment following wildfires
- Special program considerations
- Tree survivability and disposal methods

Part 6 – Endangered Species and Environmental Considerations

15 Minutes

Format: Interactive Lecture

- NEPA review process
- Endangered Species Act Section 7

Part 7 – Health and Safety Considerations

15 Minutes

Format: Interactive Lecture

- NEPA review process
- Endangered Species Act Section 7

Part 7 – Next Steps/Questions

15 Minutes

Format: Interactive Lecture

- Questions
- Update H-GAC website materials







Workshop 3: Severe Drought and Wildfire

Houston-Galveston Area Council Annual Debris Training Workshop Series August 2, 2012



AGENDA

- Introduction
- Hazard Analysis
- Federal Assistance Programs
- Break
- Case Study: Bastrop, Texas Wildfire
- Debris Operations for Wildfires
- Endangered Species and Environmental Considerations
- Health and Safety Information
- Next Steps/Adjourn

BEFORE WE BEGIN....









UPDATEFHWA-ER Program for Debris

- "Moving Ahead for Progress in the 21st Century Act (MAP-21)" passed into law July 6th
- States that FHWA-ER program will no longer be responsible for debris management in "stafford act events"
 - FEMA PA engaged
- Begins October 1, 2012
 - Prior to new FY, it will be managed under previous system

INTRODUCTION Purpose

- Identify the impacts of drought on trees
- Provide information about defensible space
- Discuss differences in the Federal Emergency Management Agency (FEMA) Public Assistance Grant Program and the FEMA Fire Management Assistance Grant (FMAG)
- Discuss Wildfire Debris Streams
- Discuss volunteer organization roles in wildfire debris operations

- Texas 2011 Drought Conditions
 - Most severe single-year drought since the 1950's
 - Lowest single-year rainfall since1895
 - Hottest June-August period of any U.S. state at any point in time on record—exceeding even that of the Dust Bowl of the 1930's.



- Texas 2011 FMAG Declarations
 - -Texas Nolan County Fire Complex
 - Nolan County, TX
 - **—Texas Reimer Fire**
 - Hutchinson County
 - **Texas 148-2332 Fire**
 - Clay County
 - A record 55 FMAG declarations in Texas in 2011



- Texas Wildfires Fire Major
 Disaster Declaration DR-4029
 - Public Assistance category A in 20 counties
 - Public Assistance category B in 123 counties
 - Public Assistance categories C
 thru G in 20 counties
 - Hazard Mitigation GrantProgram eligibility



- FEMA Public Assistance (PA) declaration for drought
 - Only 2 droughts have received a PA declaration
 - Occurred in Micronesia
 - Received declaration due to a lack of water, not damage



HAZARD ANALYSIS









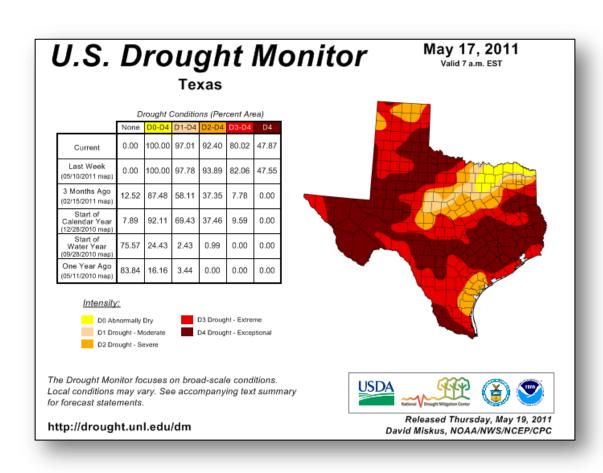
HAZARD ANALYSIS Severe Drought

- Characteristics of drought
 - Prolonged period of moisture deficiency
 - Affects cultivation of crops
 - Affects water availability and water quality
 - Key factor in wildfire development
 - -Conditions make natural fuels
 - High winds and lightening can exacerbate conditions for wildfire



HAZARD ANALYSIS Severe Drought

- Palmer Index
 - Usestemperatureand rainfall todeterminedryness
 - Semi-official drought index



HAZARD ANALYSIS Severe Drought

Keetch-Byram Drought Index

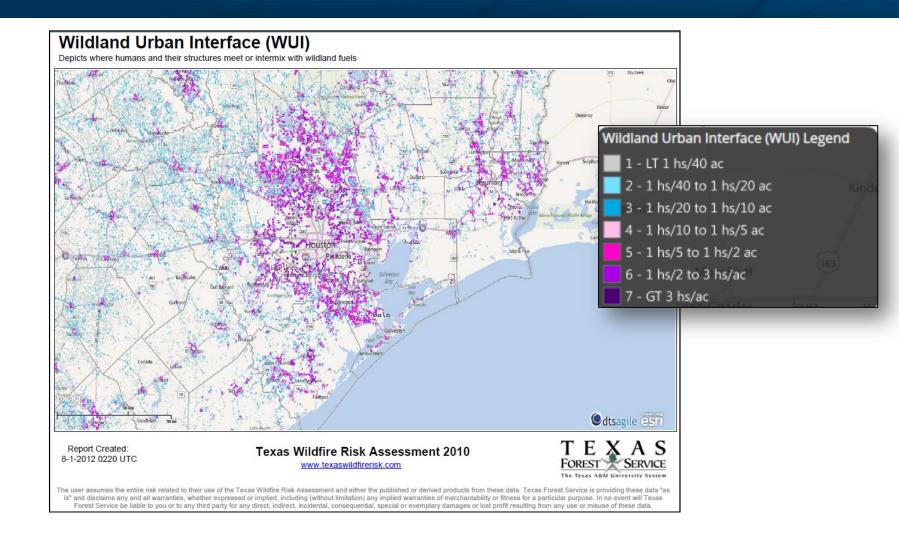
Index	Potential or Expected Behavior
0-200	Soil and fuel moisture are high. Most fuels will not readily ignite or burn. However, with sufficient sunlight and wind, cured grasses and some light surface fuels will burn in spots and patches.
200-400	Fires more readily burn and will carry across an area with no gaps. Heavier fuels will still not readily ignite and burn. Also, expect smoldering and the resulting smoke to carry into and possibly through the night.
400-600	Fire intensity begins to significantly increase. Fires will readily burn in all directions exposing mineral soils in some locations. Larger fuels may burn or smolder for several days creating possible smoke and control problems.
600-800	Fires will burn to mineral soil. Stumps will burn to the end of underground roots and spotting will be a major problem. Fires will burn through the night and heavier fuels will actively burn and contribute to fire intensity.

- Characteristics of Wildfires
 - -Sweeping and destructive conflagration
 - Wildfires in Texas can be defined as being a wildland, interface, or intermix fire

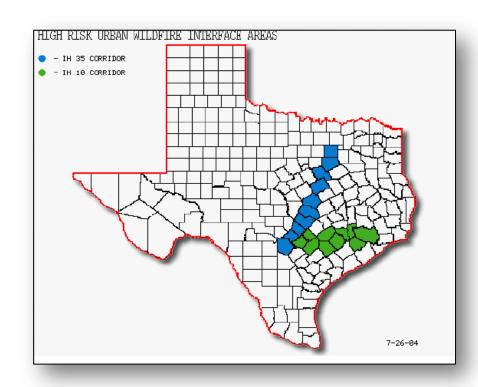


- Wildland Urban Interface (WUI)
 - Zone of transitionbetween unoccupiedland and humandevelopment
 - Communities in this zone are at a higher risk of wildfires





- High risk areas for WUI
 - Counties along the I-35 corridor
 - Counties along the I-10 corridor from SanAntonio to Houston



Source: State of Texas Hazard Mitigation Plan, 2010-2013

HAZARD ANALYSIS Discussion

- Discuss strategies for mitigating the impacts of drought and wildfires.
 - Implement Xeroscape and public education programs to conserve water.
 - Conduct wildfire training for response and recovery staff.
 - Develop a wildland urban interface plan.
 - Educate homeowners on the importance of water conservation and the effects of wildfires.
 - Maintain a current hazard mitigation plan to support justification for future mitigation projects.



FEDERAL ASSISTANCE PROGRAMS









GRANT PROGRAMS FEMA Fire Management Assistance Grant



GRANT PROGRAMS FEMA Fire Management Assistance Grant

- FEMA Fire Management Assistance Grant (FMAG)
 - Expedited declaration process
 - Principal Advisor's Report
 - Request for Fire
 Management Assistance
 Declaration

PRINCIPAL	NCY MANAGEN ADVISOR'S R	SECURITY MENT AGENCY MEPORT	OMB NO. 1660-0058 Expires September 30, 201
Management of Fore	st and Grasslan	d Fires, Section 420 PL 93-288, as am	ended
1. NAME OF PRINCIPAL ADVISOR		2. DATE AND TIME OF STATE REQUEST	3. DATE AND TIME OF ADVISOR'S REPORT
4. I HAVE HAVE NOT REVIEWED THE OFFICIAL ST. PL 93-288.			LARATION UNDER SECTION 420
(Name of	Fire)		(Date Fire started)
5. PREVAILING WEATHER CONDITIONS:		6. FIRE INDEX: (Palmer, KBDI, Hali	nes, etc.)
TEMPERATURE HUMIDITY	WIND	NAME OF INDEX	
OTHER		NUMBER ON SCALE	
7. PREDICTION OF WEATHER AND FIRE CONDITIO	NS FOR THE NEX	T 24 HOURS: (Fire Behavior)	
a. EXISTENCE OF OTHER FIRES NEARBY THAT MA	AY RESULT IN A CO	ONFLAGRATION	
b. NUMBER OF LARGE FIRES BURNING IN THE ST.		ONFLAGRATION	
		ONFLAGRATION	
b. NUMBER OF LARGE FIRES BURNING IN THE ST. 9. THREAT INFORMATION:	ATE:	NPLAGRATION	
NUMBER OF LARGE FIRES BURNING IN THE ST. HTREAT INFORMATION: A ASSESSMENT	ATE:TIES:		
D. NUMBER OF LARGE FIRES BURNING IN THE ST. S. THREAT INFORMATION: A. ASSESSMENT D. PROXIMITY OF FIRE TO HOMES AND COMMUNI C. NATURAL OR OTHER BARRIERS BETWEEN FIRE TO. THIS ASSESSMENT IS BASED ON	ATE:TIES:	eo:	
D. NUMBER OF LARGE FIRES BURNING IN THE ST. 9. THREAT INFORMATION: 2. ASSESSMENT D. PROXIMITY OF FIRE TO HOMES AND COMMUNI C. NATURAL OR OTHER BARRIERS BETWEEN FIRE 10. THIS ASSESSMENT IS BASED ON ON SITE SURVEY DISCUSSION WI	ATE:TIES:	ES: COMMANDER □ OTHER	
D. NUMBER OF LARGE FIRES BURNING IN THE ST. S. THREAT INFORMATION: A. ASSESSMENT D. PROXIMITY OF FIRE TO HOMES AND COMMUNI C. NATURAL OR OTHER BARRIERS BETWEEN FIRE TO. THIS ASSESSMENT IS BASED ON	ATE: TIES: E AND COMMUNITI TH THE INCIDENT 10. PHONE NUM	ES: COMMANDER □ OTHER	c. Night

http://www.fema.gov/fire-management-assistance-grant-program

GRANT PROGRAMS FEMA Fire Management Assistance Grant

- Individual fire cost threshold for a State:
 - -\$100,000, or
 - -Five percent x \$1.30* x the State population
- Cumulative fire cost threshold for a State:
 - -\$500,000, or
 - -Three times the five percent x \$1.30* x the State population

GRANT PROGRAMS FEMA Fire Management Assistance Grant (FMAG)

Eligible work:

- Category B (Emergency Protective Measures):
 Limited assistance provided under Section 403 of the
 Stafford Act
- Category H (Fire-fighting Activities): Eligible work associated with fire-related activities provided under Section 420 of the Stafford Act
- Does NOT provide funding for debris operations

GRANT PROGRAMS FEMA Fire Management Assistance Grant (FMAG)

- FMAG Recovery Assistance Mobile Based Operations (RAMBO)
 - Pilot Program
 - Checklist available prior to meeting with FEMA
 - Expedited reimbursement process





- Primary Factors that dictate a declaration
 - Estimated cost of the assistance
 - Extent of localized impacts
 - Amount of insurance coverage in force
 - Extent to which hazard mitigation has reduced potential losses
 - Occurrence of recent multiple disasters
 - Availability of other federal assistance

Texas Wildfire Declaration for Public Assistance

Primary Impact: Emergency protective measures

Total Public Assistance cost estimate: \$27,402,214

Statewide per capita impact: 6 \$1.31 Statewide per capita impact indicator: 7 \$1.30

Countywide per capita impact: Andrews County (\$358.13), Archer County

(\$38.79), Armstrong County (\$59.96), Bailey County (\$101.60), Baylor County (\$67.65), Brewster County (\$224.43), Callahan County (\$6.62), Carson County

(\$255.96), Castro County (\$13.83), Clay County (\$79.23), Coleman County (\$12.43),

Concho County (\$19.48), Cottle County (\$30.14), Crockett County (\$542.88), Dawson

County (\$78.86), Duval County (\$11

(\$313.14), Glasscock County (\$33.5) It is critical to accurately

(\$217.91), Hockley County (\$20.17).

King County (\$4,664.81), Lynn Cour County (\$57.83), Mitchell County (\$

(\$1,142.05), Pecos County (\$155.61)

(\$56.58), Stephens County (\$10.87),

capture eligible costs in the initial damage assessment.

Terrell County (\$126.98), Terry County (\$11.97), Throckmonton County (\$147.08), Tom Green County (\$6.12), Trinity County (\$3.93), Tyler County (\$14.03), Val Verde

County (\$151.54), Young County (\$13.33). Countywide per capita impact indicator:8

FEMA Public Assistance Grant

Category A: Debris removal

Category B: Emergency protective measures

Category C: Road systems and bridges

Category D: Water control facilities

Category E: Public buildings and contents

Category F: Public utilities

Category G: Parks, recreational and others





- Hazard Mitigation Grant Program
 - Available to applicants to implement mitigation measures following a major disaster declaration
 - Amount available varies with each disaster
 - Project does not have to be in a declared county
 - State must have a pre-approved standard hazard mitigation plan
 - States with an enhanced mitigation plan are eligible for an additional 5% in funding

http://www.fema.gov/library/viewRecord.do?id=4225

- Hazard Mitigation Grant Program
 - Applicant must be participating and in good standing with the National Flood Insurance Program (NFIP).
 - Projects must be environmentally sound, cost-effective, solve a problem and prevent future damage.
 - Projects can protect either public or private property.

- Wildfire Mitigation Projects
 - Eligible activities
 - Creating defensible space around structures through the removal of flammable vegetation
 - Using non-combustible building envelope assemblies, ignition resistant materials, and proper retrofit techniques of new and existing structures
 - Reducing hazardous fuels by vegetation management, vegetation thinning, or reduction of flammable materials to protect life and property beyond defensible space parameters, but proximate to at-risk structures.

- Wildfire Mitigation Projects
 - Defensible Space Activities
 - Minimize volume of combustibles
 - —Dry leaves
 - -Pine needles
 - Dead or dying foliage
 - -Trees
 - Propane tanks



- Wildfire Mitigation Projects
 - Defensible space activities documentation
 - The description of requested defensible space activities must be provided for each property
 - The radius of defensible space may vary from one jurisdiction to another
 - -Local codes
 - International Code Council's International
 Wildland-Urban Interface Code can be used as the default code

- Defensible Space
 - At least 100 feet from each building or structure
 - -"In zone" is 30 from structure
 - Keep plants low
 - Ensure a water supply is readily available



Wildfire Mitigation Projects

- Hazardous fuels reduction activities
 - Community-level vegetation management
 - Vegetation removal
 - Vegetation clearing and/or thinning
 - Slash removal
 - Vertical clearance of tree branch



Wildfire Mitigation Projects

- General information for application
 - A description of the wildfire mitigation activities and the method to accomplish the activities
 - Map(s) showing the project area and relationship of structures to wildland/urban interface or forested, range, or grassland area
 - Property-level rating of wildfire risk for each home or community, along with the scale used to measure the rating levels, if applicable.
- Demonstrate that duplication of programs will not occur

- Hazard Mitigation
 Projects in Texas
 - Vegetation/dead tree
 removal to reduce fuels
 - Cost-effective
 - Eligible activity
 - Environmentally sound



Hazard Mitigation Grant Process

- Applicant submits grant application to the state.
- State makes a determination that the project will either likely, not likely or ineligible for funding
- Applicant determines whether or not to proceed with application.
- FEMA conducts an investigative technical analysis, cost-benefit analysis and environmental analysis to determine if the project will be funded.
- Many applications will not be funded on the basis of ineligibility.
- It is important to consider the State's recommendation during the application process.

Ineligible Activities

- Vegetative site stabilization, natural dune restoration, agricultural cultivation, and grazing
- Public picnic shelters, pavilions, and gazebos
- Public restroom
- Small-scale recreational courts, ball fields, golf courses, etc.
- Campgrounds
- Installation of signs when designed not to trap debris
- Sewer, water, and power to serve the allowable uses

Ineligible Activities

- Unimproved, unpaved parking areas
- Unpaved access roads, driveways, and camping pads limited to those necessary to serve the acceptable uses on acquired property.
- Small boat ramps, docks, and piers to serve a public recreational
- Drainage facilities intended to service onsite needs
- Construction activities, excavation, and other minor water control structures to create areas for water detention/retention
- Simple structures used exclusively for agricultural purposes

BREAK









CASE STUDY – BASTROP, TEXAS WILDFIRE





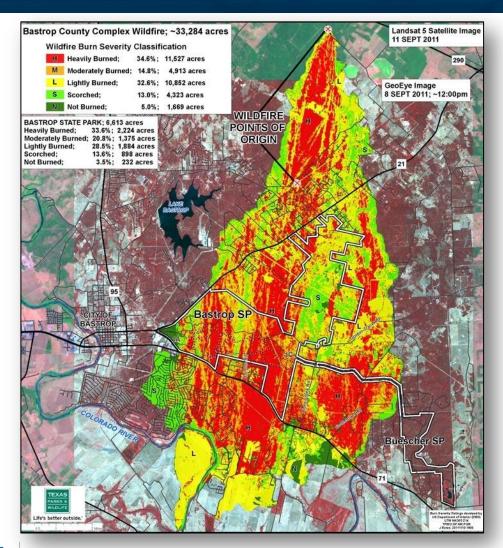




Bastrop Conditions

- Fire started Sept. 4, 2011
- Tropical Storm Lee caused 30 mph winds
- Most destructive single wildfire in Texas history
- 34,000 acres burned
- 1,667 Homes destroyed (1,213 survived in the burn area)
- 38 non-residential structures destroyed
- 5,000 (+/-) people displaced from destroyed homes
- 2-fatalities
- 1.5 million trees killed











FEMA Pricing Sheet for Fire Debris

- Hazardous limbs
- Hazardous stumps
- Abandoned vehicles
- Animal carcasses
- White goods
- Freon Removal
- PPDR Vegetative
- PPDR C&D
- Back fill

- Ash
- PPDR concrete slabs
- PPDR hazardous containers
- PPDR HHW
- Vehicle/vessel aggregation
- Haulout
- Mud, silt, sand

SCHEDULE 1 - UNIT RATE PRICE SCHEDULE	
ROW Vegetative Debris Removal (Collect & Haul) Work consists of collection and transportation of eligible vegetative debris on the ROW to an approved TDSRS or other designated disposal facility.	Estimated CY
	337,500
 ROW C&D Debris Removal (Collect & Haul) Work consists of collection and transportation of eligible C&D debris (to Include metals) on the ROW to an approved TDGRS or other designated disposal facility. 	Estimated CY
	30,00
 Demolition, Removal and Transport of Eligible Structures Work consists of all labor, equipment, fuel, and associated costs necessary to demolish structures on private property. 	Estimated CY
	20,00
 TDSR Management and Operations Work consists of the management and operation of TDORIO for acceptance, management, segregation, and staging of disaster restated debris. 	Estimated CY
	367,50
 Reduction of Eligible Debris Through Grinding Work consists of all labor, equipment, fuel, and miscellaneous costs necessary to reduce disaster generated debris through grinding. 	Estimated CY
	168,75
 Reduction of Eligible Generated Debris Through Air Curtain Incineration Work consists of all labor, equipment, fuel, and miscellaneous costs necessary to reduce disaster generated debris through air curtain incineration. 	Estimated CY
	168,75
 Reduction of Eligible Generated Debris Through Controlled Open Burning Work consists of all labor, equipment, fuel, and miscellaneous costs necessary to reduce disaster generated debris through controlled open burning. 	Estimated CY
 Haul-out of Reduced Debris to Final Disposal Site Work consists of loading and transporting reduced debris at an approved TDBRB to a final disposal facility. Tipping fees will be billed in addition to load and hash rate as a pass through. 	Estimated CY
	47,25
Notes:	





Debris Streams

- White goods
- Vehicles
- Ash
- Concrete slabs
- Less construction and demolition
 (C&D) debris

Private Property Debris Removal (PPDR)

- 16,000 trees on the rightof-way
- 30,000 trees removed from private property
- 400 trees removed from one property
- Must subrogate insurance claims



 Removal of hazardous dead trees that could potentially fall onto the right of way or damage infrastructure



TREES CUT (Estimate for totals)

15,000 ROW

35,000 PPDR

50,000 SUBTOTAL

50,000 Bluebonnet Electric

100,000 TOTAL

100,000/1,500,000 = 7% of total dead trees



DEBRIS STREAMS

1,000,000 CY vegetative

50,000 CY C&D



\$8,000,000 ROW

\$8,000,000 PPDR

\$16,000,000 TOTAL @25% local share,

Bastrop County share is \$4,000,000



State Park

- Logging company removed burned vegetation
- Payment for services was the timber
- Short timeframe for useful lumber after being burned
- Unique characteristics of the park allowed this project to be costeffective and successful



- Environmental Concerns:
 Houston Toad
 - Endangered species
 - Project area one of the few remaining habitats
 - Debris piles may be providing artificial habitat
 - Extensive environmental monitors heavily involved in debris operations



DEBRIS OPERATIONS FOR WILDFIRES









- Damage Assessment
 - -Homes impacted
 - Demographics/ socioeconomic area
 - Burn area
 - Integrate GIS
 - Estimated insurance
 - -Windshield assessments
 - Safety measures fires smolder for a long time



- Insurance subrogation
 - Many homeowners have insurance for improvement and outbuildings
 - Policies may not cover debris removal for trees
 - \$500 \$3,000 for debris/tree removal
 - Estimated insurance will impact speed of PA declaration
 - Impacts to PPDR program
 - Must have mechanism for City/County to "bill back"
 - FEMA will want to review insurance policies

It's the law!!!

- Initial debris operations
 - Define debris operations area
 - Develop a health and safety plan
 - Coordinate with volunteer resources
 - -Understand where the right of way is
 - Coordinate with FEMA early on special programs like
 PPDR
 - Coordinating with TCEQ on disposal guidance

- Debris operations
 - Distance from the right of way
 - Working in wooded areas



- Debris management sites
 - Drought conditions
 - -Community sensitivities
 - Water supply
 - Coordinating with fire marshal on fire suppression
 - On-site water source
 - Adequate firefighting capacity at the site



- Resource Requirements
 - Personnel training and certification
 - Daily safety briefings
 - Documentation training
 - Environmental/historical awareness
 - Endangered species training
 - Hazardous materials
 - Certified arborist



- Resource Requirements
 - -Specialized equipment
 - Logging equipment
 - Circular saw
 - Feller Buncher



- Resource Requirements
 - Personal protective equipment and field supplies
 - Masks
 - Goggles
 - Snake guards
 - Machetes
 - Insect repellant



- Organizing volunteers
 - Volunteers assist residents move debris to the right of way.
 - Different groups organized collectively as one unit in the process
 - Staggered schedule with debris removal behind volunteer groups



- Documentation
 - Load tickets
 - Unit rate tickets
 - PPDR program survey
 - -GPS/address
 - -Photos



Debris stream analysis

- Vegetative
- -C&D
- -Concrete
- -Ash
- Vehicles
- -White goods
- -HHW



- Determining tree survivability
 - Post fire evaluation of pines
 - Bark char is greater than 50%
 - No green needles present in crown
 - Presence of wood boring beetles
 - "Weeping" or "bleeding" resin
 - Exposure of charring in roots

http://www.co.bastrop.tx.us/



- Disposal methods
 - -C&D
 - Clean wood
 - Household hazardous waste (HHW)
 - Non-household hazardous waste
 - -Animal carcasses

Waste Type	Examples of Waste Type	Disposal Option
Vegetation	Trees, Brush	Preferred: Recycle Option: Type IV MSW Landfill Option: Type I MSW Landfill
Clean Lumber	Lumber, siding, plywood and similar wood materials that have not been painted, stained or chemically treated	Preferred: Recycle Option: Type IV MSW Landfill Option: Type I MSW Landfill
Animal Carcasses	Non-diseased Poultry, cattle, domestic animals	Preferred: On-site Burial/mounding Preferred: MSW Type I Landfill
	Diseased poultry, cattle	Outdoor burning. Coordinate with local authorities and firefighters
Household or Commercial Waste	Putrescible waste	MSW Type I Landfill
	Garbage, refuse, rubbish	MSW Type I Landfill
White Goods	Refrigerators	Preferred: Recycle Option: MSW Type I Landfill
	Stoves	Preferred: Recycle Option: MSW Type I landfill
	Washer/Dryers	Preferred: Recycle Option: MSW Type I landfill
Construction or Demolition Waste	Asbestos containing debris - shingles, siding, insulation, tiles	MSW Type I Landfill w/ Special Waste Authorization
	Painted/stained/treated wood	Preferred: MSW Type IV Landfill Option: MSW Type I Landfill
	Roof shingles	Preferred: Fuel source for cement kilns with appropriate air authorization Option: MSW Type I' Landfill Preferred: MSW Type I Landfill
	Sheet rock	Preferred: MSW Type IV Landfill Option: MSW Type I Landfill
Batteries		Preferred: Recycle (Lead-acid batteries are not allowed in MSW landfills).
Household Hazardous Waste	Cleaning products	Option: HHW Collection Event Option: HHW Collection Event Option: MSW Type I Landfill Option: Permitted HW facility
	Paints, Solvents	Option: HHW Collection Event Option: MSW Type I Landfill Option: Permitted HW facility
	Pesticides	Pesticide Collection Event

http://www.tceq.texas.gov/assets/public/response/drought/managing-wildfire-debris.pdf

ENDANGERED SPECIES AND ENVIRONMENTAL CONSIDERATIONS









ENDANGERED SPECIES AND ENVIRONMENTAL CONSIDERATIONS Federal Environmental and Historic Preservation

- Federal environmental and historic preservation (EHP)
 - National Environmental Policy Act (NEPA) review of FEMA Funded Projects
 - Debris is often categorically excluded from the NEPA review process
 - Debris operations as a result of a wildfire often encroach on natural habitat requiring a review beyond the categorical exclusion

ENDANGERED SPECIES AND ENVIRONMENTAL CONSIDERATIONS Endangered Species

- Section 7 of the Endangered Species Act:
 - FEMA must prevent or modify any projects that are likely to jeopardize the continued existence of an endangered or threatened species or modify their habitat
 - FEMA must review projects that may affect an endangered species with the US Fish and Wildlife Service (FWS).

ENDANGERED SPECIES AND ENVIRONMENTAL CONSIDERATIONS Responsibilities of the Applicant

- Section 7 Consultation.
 - Step 1: Determine if a listed species or their habitat is in the project area.
 - Step 2: Determine if the project may affect the species or their habitat.
 - -Step 3: Determine if the project may adversely affect the species or their habitat.

http://www.fws.gov/midwest/endangered/section7/s7process/7a2proces s.html

HEALTH AND SAFETY INFORMATION









HEALTH AND SAFETY INFORMATION Health and Safety Concerns

- EPA memo regarding demolition of asbestos containing material, June 2012
 - -NESHAP
 - -CERCLA
 - -**OSHA**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUN - 8 2012

DEPUTY ADMINISTRATOR

MEMORANDUM

SUBJECT: U.S. Environmental Protection Agency's Notification of Rules and Regulations

Regarding the Demolition of Asbestos-Containing Structures

FROM: Bob Perciasepe

TO: Assistant Administrators Regional Administrators

The Office of Inspector General on December 14, 2011, issued Report No. 12-P-0125. Early Warning Report: Use of Unapproved Asbestos Demolition Methods May Threaten Public Health. In the report, the inspector general recommended that the U.S. Environmental Protection Agency should immediately and clearly communicate National Emission Standards for Hazardous Air Pollutants and Occupational Safety and Health Administration requirements for the demolition of absetos-containing structures to regional, program and field offices to prevent potentially hazardous asbestos exposure. The inspector general also recommended that the "EPA should notify these offices that unapproved methods are not to be used without obtaining appropriate waivers."

The attached document is intended to fulfill both of these recommendations by reminding EPA employees of the Clean Air Act Asbestos National Emission Standards for Hazardous Air Pollutants regulations and their applicability to cleanups at Comprehensive Environmental Response, Compensation and Liability Act sites, and the worker-protection safety regulations under the Occupational Safety and Health Act and the Toxic Substances Control Act.

Prepared in a question-and-answer format, the document is organized in three sections. The first section summarizes the Clean Air Act Asbestos NESHAP requirements. The second section summarizes the CERCLA requirements for removal, remedial and brownfields actions where asbestos cleanup is required. The third section summarizes the worker-protection standards under the Occupational Safety and Health Act and the Toxic Substances Control Act.

We also recognize the need to review existing guidances, policies and procedures, as appropriate, to identify those requiring revisions. Such a review would include the EPA and U.S. Department of Energy Policy on Decommissioning Department of Energy Facilities Under the Comprehensive Environmental Response, Compensation and Liability Act, May 22, 1995. As we proceed with implementing the corrective actions to the Office of Inspector General's recommendations and analyze the information

Internet Address (URL) • http://www.epa.gov
Recycled/Recyclable • Printed with Vegetable Oil Based Iriks on 100% Postconsumer, Process Chlorine Free Recycled Pape

http://www.epa.gov/asbestos/pubs/structures.pdf

HEALTH AND SAFETY INFORMATION Potential for Asbestos Exposure

- Debris from homes and buildings may contain Asbestos.
 - Avoid breathing dust at the site.
 - Use a tight-fitting particulate mask
 - Wear protective glasses or goggles
 - Wear gloves, a long-sleeved shirt and long pants or coveralls to protect your skin.
 - Keep debris and ash dampened.
 - Place wetted debris in closed containers.
 - Wrap wetted debris in polysheeting cover.

HEALTH AND SAFETY INFORMATION Implement a Safety Plan

- Identify a health and safety officer
 - -OSHA Hazardous materials training and certification
 - Asbestos training and certification
- Provide daily situational update to all field personnel regarding known and potential hazards
- Identify protective equipment required for each job function and debris program
- Issue personnel personal protective equipment
- Document health and safety procures

NEXT STEPS

- Presentation will be posted on the H-GAC website.
- Reorganization of the debris management resources on H-GAC website



QUESTIONS?



ADJOURN

Thank you!

John BuriDirector of Post-Event Programs, SAIC (713) 737-5763

Table 1. Options for Management of Segregated Debris

To find an appropriate landfill near you, go online to <tceq.texas.gov/goto/landfills>

Waste Type	Examples of Waste Type	Disposal Option
Vegetation	Trees, Brush	Preferred: Recycle Option: Type IV MSW Landfill Option: Type I MSW Landfill
Clean Lumber	Lumber, siding, plywood and similar wood materials that have not been painted, stained or chemically treated	Preferred: Recycle Option: Type IV MSW Landfill Option: Type I MSW Landfill
Animal Carcasses	Non-diseased Poultry, cattle, domestic animals	Preferred: On-site Burial/mounding Preferred: MSW Type I Landfill
	Diseased poultry, cattle	Outdoor burning. Coordinate with local authorities and firefighters
Household or Commercial Waste	Putrescible waste	MSW Type I Landfill
	Garbage, refuse, rubbish	MSW Type I Landfill
White Goods	Refrigerators	Preferred: Recycle Option: MSW Type I Landfill
	Stoves	Preferred: Recycle Option: MSW Type I landfill
	Washer/Dryers	Preferred: Recycle Option: MSW Type I landfill
Construction or Demolition Waste	Asbestos containing debris - shingles, siding, insulation, tiles	MSW Type I Landfill w/ Special Waste Authorization
	Painted/stained/treated wood	Preferred: MSW Type IV Landfill Option: MSW Type I Landfill
	Roof shingles	Preferred: Fuel source for cement kilns with appropriate air authorization Option: MSW Type IV Landfill Preferred: MSW Type I Landfill
	Sheet rock	Preferred: MSW Type IV Landfill Option: MSW Type I Landfill
Batteries		Preferred: Recycle (Lead-acid batteries are not allowed in MSW landfills). Option: HHW Collection Event
Household Hazardous Waste	Cleaning products	Option: HHW Collection Event Option: MSW Type I Landfill Option: Permitted HW facility
	Paints, Solvents	Option: HHW Collection Event Option: MSW Type I Landfill Option: Permitted HW facility
	Pesticides	Pesticide Collection Event

Waste Type	Examples of Waste Type	Disposal Option
	Automotive products	Option: HHW Collection Event Option: MSW Type I Landfill Option: Permitted HW facility
	Electronics: VCRs, Computers, TVs, etc.	Option: Recycle HHW Collection Event Option: MSW Type I Landfill Permitted HW facility
Compressed Gas Containers		Recycle
Tires		Pick-up by authorized Scrap Tire Transporter or delivery to authorized processing or end-use facilities.



After the Wildfires in Declared Disaster Areas in Texas: Disposing of Ash from Residential Structures

In cleaning up after a wildfire, after you've separated out all other debris according to the guides distributed by us (the TCEQ) and Bastrop County, you must deal with the ashes. As you do, we encourage you to take these precautions to protect your family's health:

- Keep children out of the ash.
- Wear protective gear:
 - a respirator or mask with a rating of N-95
 - safety goggles or glasses
 - a long-sleeved shirt
 - work gloves
 - long pants
 - safety shoes or work boots
- Wash your hands after working, and especially before you eat.
- Before you follow the guidance we give here, contact your local authorities to be sure you comply with all local ordinances.

What are my options?

Basically, two options are available:

Option 1: Bury the ash on your propertyBut be sure to:

- Check local ordinances.
- Call 1-800-344-8377 (DIG-TESS) or 1-800-545-6005 (Texas One Call) to confirm locations of gas pipelines and other utilities.
- Find a site that is away from planned or likely future structures.
- Bury the ash in a pit or trench.
- Bury only the ash from your own property.
- Bury only ash from residential buildings.

If you have more ash than you can bury, take the rest to a landfill. If you are concerned about the volume of ash on your property, call the TCEQ Debris Hotline, 800-687-7057.

Option 2: Take the ash to a landfill

These four landfills near Bastrop can accept ash:

- Texas Disposal Systems Landfill 512-421-1300 3016 FM 1327, Buda 78610 (map)
- Austin Community Landfill 512-272-4329 9900 Giles Road, Austin 78754 (map)

• BFI Sunset Farms Landfill 512-272-4327 9912 Giles Road, Austin 78754 (map)

• IESI Travis County Landfill 512-243-6300 9600 FM 812, Austin 78719 (map)

Elsewhere in Texas, find the municipal solid waste (MSW) Type I or Type IV landfill nearest you. Find a list of all MSW landfills in Texas online at <tceq.texas.gov/goto/landfills>.

If you take the ash to a landfill:

- Be sure the ash is well contained, so it will not spill during the trip.
- Be sure the ash is well covered—for example, with a tarp.
- If any ash spills during the trip, you must clean up the spill.
- Keep the receipt from the landfill for your records.

What if the ash is from my business?

Unless your business generated Class 1 industrial waste, take the ash to a landfill.

If your business did generate Class 1 industrial waste, call the landfill to find out if you first need authorization from us before the landfill may accept the ash.

If you need our authorization, call the TCEQ Technical Assistance Group at 512-239-2334.

Need help or advice? Call us!

Call the TCEQ Debris Hotline, 800-687-7057, if you have any questions about ash disposal that are not answered in this guide.

Our regional office that serves your county can give you information specific to these wildfires. In Bastrop County, call <u>TCEQ Region 11</u>, 512-339-2929. Elsewhere in Texas, find out how to contact the TCEQ regional office that serves your county online at <<u>tceq.texas.gov/qoto/region</u>>.

Find more information online

You can find this and other helpful documents on our website at <tceq.texas.gov/goto/wildfires>.

For more information from Bastrop County officials, go to <<u>co.bastrop.tx.us/bcdisaster</u>>.

US Fish and Wildlife Service

Endangered Species Section 7 Process Flow Chart

For more information, go online to:

http://www.fws.gov/midwest/endangered/section7/s7process/s7stepxstep.html

