“Elements of Debris Management Planning”

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Planning Concerns

- Roles and Responsibilities
- Legal Review
- Documentation
- Emergency Procurement Procedures
- Private Property
- Plan Revision and Review

Training and Exercise

Environmental

- Operational Methodologies
- Air and Water Quality
- Regulatory
  - Permitting and Approvals
  - Avoid Delays
- Hazardous and Household Hazardous

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Local Coordination

- Key Players and Stakeholders
- Municipal, County, Other
- Training, Planning, Operations, Exercises
- Review and Update
- Avoid: Error, Duplication, Confusion
- Risk and Vulnerability
- Safety
- Operations...

Community Vulnerability

- Types of Events
- Natural or Man-made
- Volume of Debris
  - Forecasting - Before
  - Estimating - After
- Types of Debris

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Risk Assessment

- Land Use – Commercial vs. Residential
- Identification/Location of Hazardous Materials
- Identification/Location of Critical Infrastructure - Key Resources (CIKR)
- Creates Waste – Affects Cleanup
- Planning Criteria
  - Location
  - Description
  - Priority
  - Possible Response Needs
- Community Specific

Communications

- Methodologies
- Within the Department
- Within the Organization
- With other Agencies
- With the Public
  - Public Information Officer
- Social Media
- Emergency Contact Information
Operations

- Damage Assessment
- Pre-set Priorities
- Resource Management
- Mutual Aid
- Use of Electronic Tools
- Technical Support
- Materials and Supplies

Preparedness Frameworks
- Prevention
- Protection
- Mitigation
- Response
- Recovery

Operations...

- Staff Functions
  - Roles and Responsibilities
- Search and Rescue
- Debris Clearance
- Debris Removal
- Reduction Methods
- Debris Separation
- Debris Disposal
- Operating Temporary Sites
- Contracts and Monitoring

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Search and Rescue

- Changing Roles
- Support Role
- Manpower and Equipment
- Technical Support
- Training and Exercise

Debris Clearance

- Public Safety Access
- Cutting and Clearing Streets
- Established Priorities
- Public vs. Private Streets

“SAFETY”
Debris Removal

- Methodology
- Right of Way
- Established Priorities
- Private Property
- Public-Private Streets
- Coordination of Effort
- Contracting
- Household Hazardous

- Debris Separation -
- Reduction & Disposal Established -

Reduction Methods

- Open Burning
- Air-curtain Burning
- Chipping and Grinding
- Recycling
- Regulatory

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Debris Disposal

Landfills - Final Disposal
- Existing Capacity
- Lost Space - Value
- Operational Costs
- Documentation
- Separation vs. Mixed Waste

Temporary Sites

- Reduction Methods
- Environmental Issues
- Record of Base Line information
- Site Close-Out
- Pre-Identified Locations
- Size of Site
  - Based on Volume Estimates
  - Based on Operations
- Site Location
- Ownership
- Monitoring
- Documentation

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Contracts and Monitoring

Clearing, Removal, Disposal, Reduction, Temporary Sites, Monitoring

- Methodologies
- Documentation and Payment
- Legal Review
- Procurement Process
- Opportunity for Fraud
- Cost – Coordination with DHS FEMA

Obstacles and Limitations

- No “Around the Clock” Operations
- Power and Utility Interruptions
- Restricted Access
- Inadequate Resources, Materials, Supplies
- Poor or Inaccurate Damage Assessment
- Poor Coordination of Effort

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Coordination With DHS FEMA

- Application Process
- Damage Assessment
- Volume Estimates
- Cost Must be Reasonable
- Eligible Damages Must Be:
  - Declared Event
  - Within the Incident Period
  - Designated Disaster Area

Mitigation Opportunities

- Plans and Policies
- Operations
- Other Services
- Critical Infrastructure and Key Resources
  - Hardened & Restoration
- Building Safety
- Public Awareness
- Public Benefit
Clean-up cost estimate
September 23, 1989
North Charleston, SC
2 days after Hugo

I WAS WRONG!

Got Any Questions!

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