

City of Tigard

Emergency Operations Plan

Functional Annex 2-6: Debris Management

Mitigate | Prepare | Respond | Recover

FUNCTIONAL ANNEX 2-6

DEBRIS MANAGEMENT

I PURPOSE

The purpose of this annex is to describe the City's role in the management and processing of disaster-related debris. Processing refers to collection, temporary storage, materials recovery, and disposal activities involving disaster-related debris including hazardous and other contaminated materials.

II SITUATION AND ASSUMPTIONS

2-1 Situation

Tigard is subject to a number of disaster circumstances that could create a need for debris management services. These circumstances include wind storms, floods, earthquakes, and other natural and technological emergencies.

Debris management issues brought on by natural and technological disasters require dynamic solutions that are both creative and flexible. Tremendous amounts of disaster debris may be produced, but much of it may be suitable for reuse, recovery, or recycling. Substantial amounts of contaminated debris may also force innovative decision-making.

Metro, the Portland metropolitan area regional government, has functional planning responsibility for disposal of solid wastes generated within its boundaries. Metro's debris management responsibilities/capabilities include:

- Contracting for the hauling and disposal of solid wastes that are moved out of the area
- Contracting for the operation of regional transfer stations
- Collection and processing of household hazardous wastes
- Managing a public information program that provides information on a broad range of disposal options for solid waste (including reuse, recovery, recycling, composting, and landfill).

The Solid Waste and Recycling Coordinator manages the City's Solid Waste Program. The Coordinator's debris management responsibilities/capabilities include:

- Managing solid waste franchise operations in Tigard
- Coordinating with haulers
- Serving as a liaison between Washington County and Metro and between haulers.
- Administering the cooperative recycling program as outlined in the Washington County Wasteshed Annual Waste Reduction Program Intergovernmental Agreement
- Managing a public information program

- Coordinating with Tigard's Emergency Services Coordinator contracting for emergency services
- Coordinating with Tigard's Emergency Services Coordinator designating emergency drop-off points

The City's Risk is responsible for assessing threats to public health posed by disaster-related debris.

The Public Works Department has responsibility for removal of debris from city rights-of-way (including street sweeping [Contracted]). They also remove debris from storm systems inside the jurisdiction.

The Public Works Director coordinates with the Washington County to administer land use programs that may impact the processing of disaster-related debris. Public Works Department can also remove debris from creeks and streams on an emergency basis.

The City's Facilities Management Division own, operate, and/or manage city buildings and parks and can assist with management (e.g., emergency contracting) of debris generated at those sites.

Tigard has debris management responsibilities within its own boundaries. These responsibilities include;

- Administration of franchise hauling activities;
- Management of public information programs;
- Emergency contracting; and designation of emergency drop-off points.

All of the larger cities in the County have also assumed responsibility for surface water management within their geographic boundaries. This responsibility includes street sweeping and removal of debris from catch basins, storm drains, and drainage ditches.

Private citizens and businesses are responsible for the removal of disaster-related debris from their properties. Although some local governments are prohibited by law or policy from removing debris from private property, the City of Tigard may provide some assistance when the debris poses a risk to lives, public health, or property.

A number of state and federal agencies have a stake in (and oversight of) many disaster-related debris management options/activities including:

- Burning
- Disposal of materials contaminated by hazardous or medical wastes
- Removal of debris from state rights-of-way
- Modification of acceptable waste streams (i.e., waste types) at any solid waste permitted facility
- Removal of debris from creeks, streams, and rivers

Several of these agencies can also assist with identification and acquisition of temporary disposal sites, develop debris tonnage predictions/estimates, and support debris collection and disposal operations.

Private companies engage in franchise hauling activities; operate recovery and landfill sites; provide recycling and composting options for vegetative (i.e., woody) debris; and contract to pick up and transport medical wastes.

Many non-profit and volunteer organizations can assist with debris removal activities. Convergent volunteers (i.e., those who show-up and offer assistance in time of emergency) can also help with debris removal.

Appendix 1 to this Annex provides a current list of the solid waste handling/processing facilities within Washington County as well as those operated by Metro.

The costs of debris removal may be reimbursable by the Federal Government during Presidentially declared disasters. FEMA's Public Assistance Policy identifies debris removal as "Category A" work and defines it as the clearance, removal, and/or disposal of items such as trees, sand, gravel, building components, wreckage, vehicles, and personal property. To be eligible for reimbursement, debris removal must be necessary to:

- Eliminate an immediate threat to lives, public health, and/or safety
- Eliminate immediate threats of significant damages to improved public or private property
- Ensure the economic recovery of the affected community

Debris removal from private property is generally not eligible for reimbursement under the Public Assistance Program.

2-2 Assumptions

1. There is an inadequate capacity for storage of medical wastes within the state of Oregon.
2. Some of the existing solid waste processing facilities within the County will be impacted by the disaster.
3. Sufficient equipment and personnel will be available to manage the City's disaster-related debris process.
4. Assistance will be available from outside the jurisdiction through mutual aid and other existing agreements. Assistance will also be available from state and federal agencies such as the National Guard and Army Corps of Engineers.
5. Although private citizens and businesses are expected to remove disaster-related debris from their own properties, both groups will aggressively seek assistance from local government.

6. Non-profit and volunteer organizations and convergent volunteers will assist with debris removal from private property.

III CONCEPT OF OPERATIONS

3-1 General

Whenever an emergency or disaster creates a situation where the existing solid waste processing capacity is exceeded, the solid waste management community must react quickly to formulate an effective debris management plan. Debris volumes and types must be assessed, collection and disposal resources identified, and instructions provided to businesses, and the public.

Debris removal priorities must also be established. Highest priority should be given to debris removal associated with life safety operations (e.g., gaining access to perform rescues) and restoration of critical services (e.g., reopening highways and ensuring access to fire, police, and communications facilities).

The waste management hierarchy (i.e., reuse, recycling, composting, energy recovery, disposal) must be considered in all debris management activities. Every effort must be made during response and recovery operations to separate waste streams and reuse, recycle, etc., before considering disposal options.

Creative, cross-jurisdictional programs must be developed and consideration must be given to the waiver/modification of existing regulatory restrictions/ requirements.

3-2 Phases of Management

3-2-1 *Response*

- a. Designate a Local Debris Removal Coordinator (LDRC) to manage disaster-related debris and to coordinate debris management activities with county, regional, state, and federal government representatives, waste haulers, and solid waste processing facilities.
- b. Identify and prioritize debris sites involving critical facilities and highways.
- c. Establish procedures and sites for temporary storage and processing of contaminated and uncontaminated disaster debris.
- d. Remove or contract for removal of debris from critical facilities and primary/secondary emergency response routes/highways.
- e. Identify and eliminate debris-related threats to public health and safety.
- f. Provide information to the public relative to debris-related health issues.

- g. Track debris management costs and debris tonnage processed.

3-2-2 Recovery

- a. Identify and prioritize debris removal sites.
- b. Remove or contract for removal of debris from sites not cleared during response operations.
- c. Establish controls to prevent or minimize illegal dumping.
- d. Provide information and direction to the public on the handling of all categories of disaster-related debris.
- e. Track debris management costs and debris tonnage processed.

IV ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES

4-1 General

During the response phase of the disaster, debris management strategies will be formulated by solid waste management and will be implemented through Tigard's Emergency Operations Center. As incident operations transition into long term recovery, specific debris management programs/processes/projects will be developed and coordinated by solid waste program managers.

Within Tigard, the Solid Waste and Recycling Coordinator of the Public Works Department will provide Tigard leadership for development of debris management strategies. They will coordinate with County, Metro, federal, and state, solid waste facilities, and waste haulers to ensure those strategies meet the needs of the incident while complying with statutes and regulations and addressing the waste management hierarchy. They will also be the point of origin for materials designed to instruct, inform, and educate the public concerning the handling of disaster-related solid wastes.

The City Public Works (PW) Department will have responsibility for tactical debris management activities. PW, in particular, must be able to quickly remove and process debris from City rights-of-way and may be a generator of significant debris from damaged City roadways and bridges.

4-2 Task Assignments

4-2-1 Metro

- a. Advise on the status, capacity, and operating hours of solid waste handling/processing facilities
- b. Adjust hours of operation of regional transfer stations as needed

- c. Adjust fees for public and private use of regional transfer stations as appropriate
- d. Track tonnage of debris processed through regional transfer stations
- e. Help identify temporary drop sites
- f. Provide technical assistance to local governments

4-2-2 *County Emergency Operations Center (EOC)*

- a. Gather and track countywide information on debris locations/ amounts (Plans, Ops)
- b. Notify other jurisdictions of debris sites in or affecting their jurisdictions. For example, notify the Oregon Department of Transportation of debris sites located on State Rights-of-Way. (Plans, Ops)
- c. Determine status of local debris collection resources (Plans)
- d. Determine status of local debris recycling and disposal facilities (Plans)
- e. Prioritize the County's debris removal sites (Ops, IC, Policy Group)
- f. Disseminate debris-related public education materials (JIC)
- g. Coordinate debris removal support for local jurisdictions (Logs, Plans, Ops)
- h. Track County debris removal costs and ensure eligible costs are included in the Initial Damage Assessment (Finance, Plans)

4-2-3 *Public Works Departmental Operations Center (DOC) or PW Branch Director*

- a. Gather and track information on debris locations/amounts involving areas of departmental responsibility (i.e., roads, bridges, drainage ditches/culverts, residential and commercial buildings, etc.) (Plans, Ops)
- b. Report debris locations/amounts to the City EOC (Plans)
- c. Recommend debris removal site priorities to the City EOC (Ops, IC)
- d. Coordinate removal of debris from City rights-of-way, drainage ditches/culverts, etc. (Ops, Logs)
- e. Identify temporary storage sites for disaster-related debris (Plans)

- f. Track departmental debris removal costs and ensure eligible costs are provided to the City EOC for inclusion in the Initial Damage Assessment (*Finance, Plans*)

4-2-4 *The Solid Waste and Recycling Coordinator*

- a. Act as liaison between haulers, debris processing facilities, jurisdictional residents and businesses, County, and other public agencies (e.g., Metro, DEQ, and DOA)
- b. Determine status of local debris collection resources and recycling and disposal facilities and advise the City EOC (*Ops, Plan*)
- c. Assist in formulating the City's strategic debris management plan including:
 - (1) A summary of debris management services to be provided by City government
 - (2) A list of disaster debris drop-off points and temporary storage locations
 - (3) Modifications in solid waste franchise operations such as amended hauler schedules, regulatory waivers, and adjusted disposal rates
 - (4) Procedures for putrescible surge abatement and processing of medical and contaminated wastes
- d. Work with waste haulers and facilities to develop educational materials relating to disaster debris for distribution to the public
- e. Coordinate the distribution of public education materials through the Joint Information Center (JIC) in the County EOC, through Metro, and through waste haulers and facilities
- f. Execute necessary contracts with haulers, contractors, and facilities for collection, processing, and disposal operations
- g. Track the tonnage/volume of debris processed within Tigard

4-2-5 *The Facilities Management Division*

- a. Gather and track information on debris locations/amounts involving areas of division responsibility (i.e., city buildings and parks)
- b. Report debris locations/amounts to the City EOC
- c. Track departmental debris removal costs and ensure eligible costs are provided to the City EOC for inclusion in the Initial Damage Assessment (e.g., contracted debris removal from City buildings and parks)

V DIRECTON AND CONTROL

- A. The Solid Waste and Recycling Coordinator, working as necessary with its solid waste partners at the county, regional, state, and federal levels, will assess the disaster debris problem and formulate debris management strategies and procedures for use throughout the City.
- B. Based on input from the Solid Waste and Recycling Coordinator, the City Policy Group will adopt a strategic plan for management of disaster-related debris.
- C. The City EOC will implement the strategic debris management plan and coordinate mutual aid support from County departments and surrounding local agencies involved in plan implementation.

VI ADMINISTRATION AND SUPPORT

6-1 Administration

6-1-1 The Solid Waste and Recycling Coordinator will gather reports of debris locations/amounts/types for development of strategic debris management plans. They will also track the tonnage/volume of debris processed through facilities and field drop off sites within Tigard.

6-1-2 All City departments involved in the management of disaster-related debris will track their debris removal costs and report them to the City EOC. Such costs may be reimbursable as Category A expenses when a disaster receives a Presidential Declaration for Public Assistance.

6-2 Support

6-2-1 Requests for debris removal assistance from Tigard will be processed by the County EOC. The County EOC will locate County or other local resources to fill the requests consistent with the priority of need and the availability of resources.

6-2-2 Requests for debris removal assistance from state and/or federal agencies must originate from the County EOC. Generally, such requests will not be initiated until the County has issued an Emergency Declaration and indicated its intent to seek state and/or federal support.

VII ANNEX DEVELOPMENT AND MAINTENANCE

- A. The Public Works Department will maintain this annex. Other departments with responsibilities identified in paragraph IV above may assist with plan maintenance.

- B. The Public Works Department will ensure the contents of this annex are consistent with county, state and federal regulations, the Regional Debris Management Plan, and other guiding policies/procedures.

VIII REFERENCES

- A. Regional Disaster Debris Management Plan (RDDMP)
- B. Regional Solid Waste Management Plan (RSWMP)
- C. Planning for Disaster Debris; Publication EPA530-K-95-010 of December 1995
- D. Washington County Debris Management Plan
- E. Washington County Wasteshed Annual Waste Reduction Program Intergovernmental Agreement

APPENDICIES:

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| Appendix 1 | Solid Waste Handling/Processing Facilities |
| Appendix 2 | Map of Vacant City-owned Properties of over Five Acres |
| Appendix 3 | List of Cooperative Recycling Program Members |

Appendix 1

SOLID WASTE HANDLING/PROCESSING FACILITIES

The following is a list of Washington County facilities that are open to the public for disposal of materials. Some of the facilities may be able to take additional types and amounts of material above their normal capacity in a specific disaster situation.

WASHINGTON COUNTY RECYCLING DEPOTS	C&D MATERI ALS	INERTS	SPECIA L WASTE	MISC. RECYC LA- BLES	YARD DEBRIS	WOOD WASTE
Aloha Recycling 3755 SW 205 th Place Aloha 649-6727				√		
Banks Recycling Depot 15945 NW Sellers Road Banks 324-0230				√		
Beaverton Recycling 10750 SW Denney Road Beaverton 520-8868				√		
Best-Buy-In-Town 21600 NW Amberwood Drive Hillsboro 645-6665					√	√
Forest Grove Transfer Station 1525 B Street Forest Grove 992-1212 ext. 105				√	√	
Garbarino Disposal & Recycling Center 30966 NW Hillcrest North Plains 647-2335				√		

Grimm's 18850 SW Cipole Road Tualatin 692-3756					√	√
Hillsboro Landfill Recycling Depot 3205 SE Minter Bridge Road Hillsboro 640-9427	√	√	√		√	√
Lakeside Reclamation 14930 SW Vandermost Road Beaverton 628-1866	√	√			√	√

WASHINGTON COUNTY RECYCLING DEPOTS	C&D MATERIALS	INERTS	SPECIAL WASTE	MISC. RECYCLABLES	YARD DEBRIS	WOOD WASTE
NW Environmental & Recycling, Inc. 1045 N. 4 th Avenue Cornelius 357-6090					√	√
Pride Disposal Recycling Depot 13980 SW Tualatin-Sherwood Road Sherwood 625-6177				√		
United Disposal/Willamette Resources, Inc. 10295 SW Ridder Road Wilsonville 570-0626				√		√

The following facilities are open to the public for disposal of household hazardous waste and may be able to take additional types and amounts of material in a specific disaster situation:

Metro Central Transfer Station

6161 NE 61st
Portland
234-3000

Metro South Transfer Station

2001 Washington St.
Oregon City
234-3000

The following facilities may provide for temporary storage and/or disposal of disaster debris based on the specific emergency/disaster situation:

Durham Wood & Dirt

72nd & Bridgeport Rd.
359-5323

Farmington Landfill

21630 SW Farmington

Aloha

591-1444

(Owned by Electra Partners)

Lakeside Reclamation Landfill

14930 SW Vandermost Rd.

Beaverton

628-1866

The following sites are used by the Department of Land Use and Transportation for permanent disposal of inert materials such as dirt, rock, asphalt, and concrete:

Hagg Lake Site

Scoggins Valley Road @ Henry Hagg Lake Park entrance

(This site is expected to be operational in FY 99-00. It may also be used for temporary storage of non-hazardous woody and construction debris.)

Jackson Quarry Site

South side of Jackson Quarry Road 1/4 mile east of Mason Hill Road

(This site may also be used for temporary storage of non-hazardous woody and construction debris.)

Neugebauer Site

19023 Neugebauer Road

(No temporary storage is permitted at this site.)

There are no existing facilities within Washington County designated for temporary storage or disposal of medical wastes. The following company has an exclusive contract within Oregon for the transport of medical wastes. Those wastes are transported to a disposal facility in Marion County for incineration.

Bio-Med of Oregon

P.O. Box 1

Corvallis, OR 97339

800-622-1378

APPENDIX 2

**VACANT CITY-OWNED PROPERTIES
OF OVER FIVE ACRES**

(To be developed)

Appendix 3

WASHINGTON COUNTY COOPERATIVE RECYCLING PROGRAM MEMBERS

Washington County
155 N First Ave. MS 5
Hillsboro, OR 97124

Phone: 846-8609
Fax: 846-4490

City of Banks
PO Box 428
Banks, OR 97006

Phone: 324-5112

City of Cornelius
PO Box 608
Cornelius, OR 97113

Phone: 357-9112 x111
Fax: 357-7775

City of Durham
PO Box 23483
Durham, OR 97224

Phone: 639-6851
Fax: 598-8595

City of Forest Grove
PO Box 327
Forest Grove, OR 97116

Phone: 359-3220
Fax: 359-3207

City of Hillsboro
123 W Main St.
Hillsboro, OR 97123

Phone: 681-6447
Fax: 681-6232

City of King City
15300 SW 116th Ave.
King City, OR 97224

Phone: 639-4082
Fax: 639-3771

City of North Plains
PO Box 537
North Plains, OR 97133

Phone: 647-5555
Fax: 647-2031

City of Sherwood
90 NW Park St.
Sherwood, OR 97140

Phone: 625-4234
Fax: 625-5524

City of Tigard
13125 SW Hall Blvd.
Tigard, OR 97223

Phone: 639-4171 x2593
Fax: 639-6795

City of Tualatin
PO Box 369
Tualatin, OR 97052-0369

Phone: 692-2000 x835
Fax: 692-2024

City of Wilsonville
30000 SW Town Center Loop E
Wilsonville, OR 97070

Phone: 682-1011
Fax: 682-1015

**Pride Disposal Company
Emergency Coordinators**

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