

MASS DEBRIS REMOVAL PLAN

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November 2008

Topics

- Recent Fires in Southern California
- 2003 San Diego Fire Experience
- 1994 Northridge Earthquake Experience
- Los Angeles County MDR Plan
- CIWMB MDR Task Force

LA County SITSTAT Report as of November 17, 2008

EVENT SUMMARY

- **Sayre Fire** Burns 10,000 acres
- This arson initiated fire of **November 15, 2008**
 - location Sylmar in the City of Los Angeles
 - 500 mobile homes, 9 single family dwellings, 10 commercial buildings burned
 - several out buildings at Olive view Hospital, County owned structures but nothing in County jurisdiction burned
 - 1800 Firefighters were assigned to this fire

COUNTY BUILDINGS

- Public Works building inspectors determined that a large number of out buildings at the Olive View Medical Center were heavily damaged or destroyed.
- The Department of Health Services has requested Public Works to assist with the fire damage assessment.
- An EPD team visited Olive View Hospital Campus on Tuesday November 18, 2008 and here is what we found:











Experiences of Other Cities □ Counties with Natural Disasters

San Diego County Cedar and Pine Fires of 2003

San Diego County Cedar and Pine Fires of 2003

- In October 2003 □(2) Fires burned more than 400,000 acres, 6,000 structures and 4,000 vehicles. The fire burned for 14 days.
- Within a week a mass debris removal plan was in place.
- (6) weeks after the fires, removal efforts started. 128,000 tons of debris was collected. 74,000 tons of concrete, metal, vegetative debris recycled □60□ translating
- San Diego had an Emergency response but no debris collection management plan

San Diego County Cedar and Pine Fires of 2003

- The first few weeks the county focused on securing contractors to collect, transport □monitor debris through a competitive bid process

Establishing debris assistance and Hotlines

- The County reached the conclusion that not having a plan was a major challenge in the recovery efforts. A plan in place would have saved time and made reimbursement from FEMA easier.

Communication:

- 8 hr. day fire debris hotline was established. It helped residents on how to deal with fire debris by providing information on Erosion Control and Volunteer coord.

San Diego County Cedar and Pine Fires of 2003

- Over 25,000 calls were received on the County Bin Program (Free County Removal Service)
- Additional public assistance dedicated to firestorm was placed on the County Web Site:
 - Ash and Debris Clean up guidance document was developed in collaboration with RWQCB

Collection and Recycling:

- County would deduct the wild fire debris tonnage from annual disposal if majority of recyclables were diverted, their landfill capacity was up by 4 yrs

San Diego County Cedar and Pine Fires of 2003

- County provided empty roll off bins (30-40 cu.yds) at no cost to residents, bin requested by individuals and communities.
- Bins had a sign "right to enter" and anyone could have used it
- Written instruction were given to separate metal and wood
- County concluded program a success.
- 1,500 bins provided
- Most HHW was burn in the fires
- (3) HHW collection event took place and 82,000 lbs of material collected 13000 lbs from fire victims
- A burned vehicle program collected 4000 vehicles.

1994 Northridge Earthquake

City of LA experience in Northridge Earthquake

Collection □ Recycling:

- City of Los Angeles did not have a debris management plan but quickly developed one.
- Day after Earthquake the city started curbside debris collection program
- Before the earthquake □10-15□ of the debris stream was C□D but that increased from 150 tons to 10,000 tons/day after the Earthquake
- A list of licensed, insured debris removal contractor were updated.
- The early contracts removed debris quickly but no recycling
- The number of contractors grew as a result each contractor was assigned a grid of streets

City of LA experience in Northridge Earthquake

- City inspectors monitored and kept records to determine if debris that were set out for collection were picked up within 7 days
- When contractors expended this total contract amount, city officials placed this at the bottom of the approved list and called them again when their turn came.
- After 2 months FEMA allowed the city to include recycling as a debris management method
- The City's policy was to recycle □they had a potential 82□ recycling rate
- Wood, metal, soil concrete, asphalt red clay was separated
- Crushed concrete and asphalt with 15□ soil mix was sold as sub base for road

City of LA experience in Northridge Earthquake

- Soil was used as landfill cover
- Wood was grinded and sold as compost or biomass-to-energy
- Brick was ground up for baseball fields
- Metal was recycled as scraps
- City officials provided incentives for haulers to recycle. Other incentive was to pickup separate materials first then the mix
- C&D recycling capacity was expanded to 10,000 tons per day
- 3 landfills were used to dispose of debris
- Over 1 yr. later, City added 18 recycling facilities

City of LA experience in Northridge Earthquake

Communications to the Public:

- Right after the Earthquake the City through various media informed public they can leave debris, as wide as a car, on the curbside
- Later, residents were asked to separate concrete, asphalt, brick wood and other material
- Residents were still mixing debris so they were given door hangers instructing them to separate the debris
- When mix debris were still placed on the curb the city asked haulers to separate the debris
- A telephone hotline, managed by multilingual operators, accepted resident's request for debris removal
- Addresses were entered into GIS database and regularly produced maps of areas needing help. At the same time the city inspectors reported areas that needed clean up.

City of LA experience in Northridge Earthquake

Lessons Learned:

- High percentage of debris were recycled despite the fact that no debris management plan existed
- Other communities will fare better if a debris management plan exists

Other assistance:

- After Earthquake, California Office of Emergency Services:
 - ☐ Provided a liaison with FEMA
 - ☐ Issued permit to expand operation hours for solid waste facilities.

City of LA experience in Northridge Earthquake

- FEMA funded debris recycling including paying for tipping fee and cost of data entry staff and paying for contractors managing recycling
- CIWMB helped Los Angeles obtain funding through writing a letter to FEMA that recycling was "State policy" LA City like other entities in California
- LA City like other cities in California had to show source reduction per CIWMB and Litter Reduction Act
- FEMA determined since LA had a recycling policy the city did not need to show recycling would save money in order to get FEMA funding.

LA County MDR

MDR in Los Angeles County

- Los Angeles County Department of Public Works has an MDR Plan similar to LA City Plan
- Per Senate, Assembly Bills and in accordance with LA County Emergency Code, State of California Gov. and FEMA of Stafford Act LA county must develop an MDR Plan
- LACDPW developed MDR Plan in 1996, revised it in 2004 and 2008.

Essence of MDR Plan

- Local , State or Federally declared disaster
- DPW has set teams that will survey the extent of debris
- DPW will maintain and utilize databases and contracts for: general contractors, Haz. Waste contractors, recyclers and landfills list

Essence of MDR Plan cont□.

- Inform and educate the public for the collection service.
- Direct and inspect debris collection per plan: source separation, collection, recycle, reuse at the curbside for private and use Road maintenance and Flood Maintenance Divisions for other debris
- Obtain funding for operation
- Deactivate and prepare closing report



California State University Northridge Parking Structure after 1994 Earthquake



Debris on Hollywood Boulevard after 1994 Northridge Earthquake



Damages resulting from 1994 Northridge Earthquake in Granada Hills

LOS ANGELES COUNTY MASS DEBRIS REMOVAL PLAN



LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
SEPTEMBER 2008

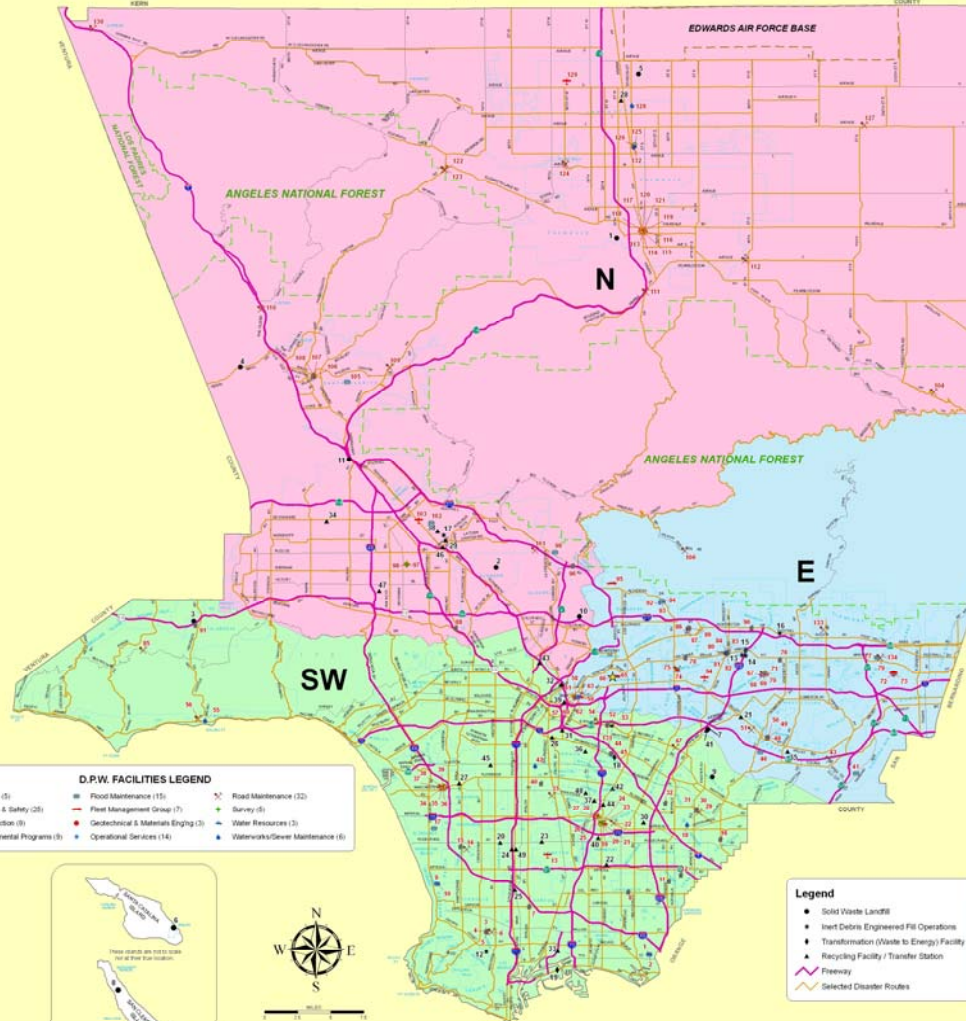


County of Los Angeles
Department of
Public Works Facilities

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COUNTYWIDE MASS DEBRIS REMOVAL PLAN

Potential Area Command Centers / Landfill, Transfer Stations / Recycling Facilities over 2 Acres



- D.P.W. FACILITIES LEGEND**
- Aviation (5)
 - Building & Safety (25)
 - Construction (8)
 - Environmental Programs (3)
 - Flood Maintenance (115)
 - Pest Management Group (7)
 - Geotechnical & Materials Eng'g (3)
 - Operational Services (14)
 - Road Maintenance (32)
 - Survey (5)
 - Water Resources (3)
 - Waterworks/Sewer Maintenance (6)



- Legend**
- Solid Waste Landfill
 - Inert Debris Engineered Fill Operations
 - Transformation (Waste to Energy) Facility
 - Recycling Facility / Transfer Station
 - Freeway
 - Selected Disaster Risks

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Headquarters
900 South Puente Avenue
Alhambra, CA 91803 Tel: (626) 498-7183

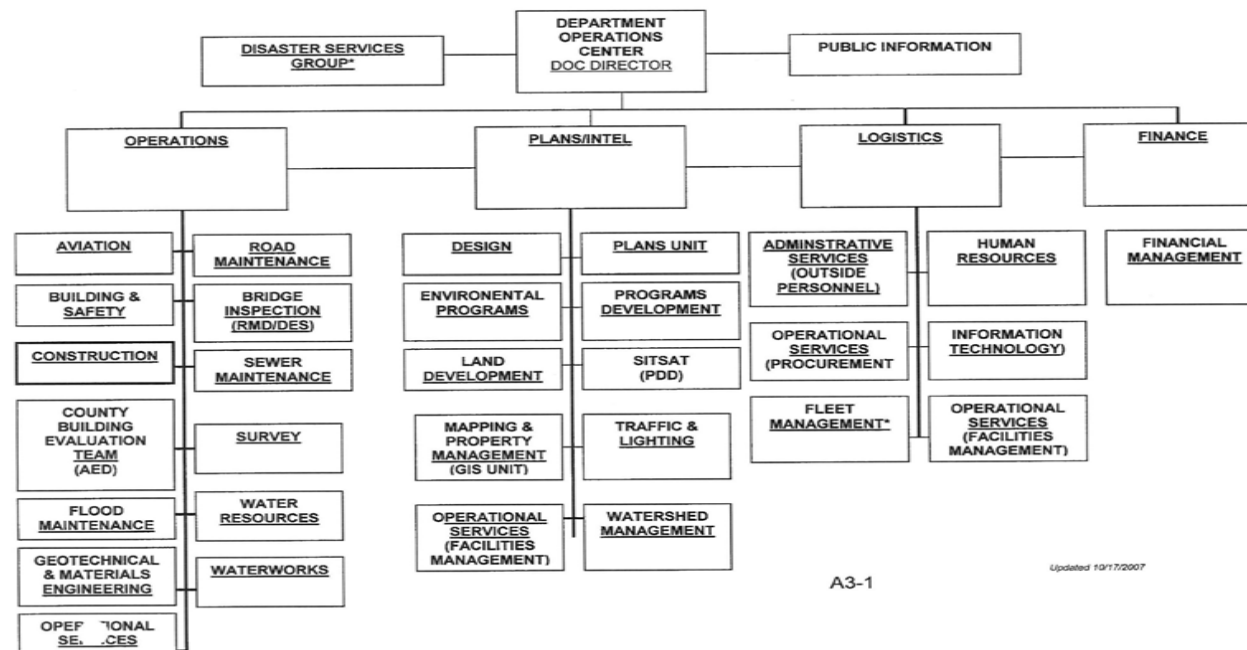
Debris Haulers in the County of Los Angeles

Debris Haulers in the County of Los Angeles

Hauler	ADDRESS	PHONE NUMBER	FAX NUMBER
A Rent-A-Bin	132 East Whittier Boulevard Montebello, CA 90640-5357	626-570-1937	626-726-0471
A Trojan Disposal	5600 Alhambra Avenue Los Angeles, CA 90032-3108	323-223-0674	323-223-0147
A V Rubbish	P.O. Box 4030 Palmdale, CA 93590-4030	661-942-4884	661-274-4289
American Reclamation, Inc.	4560 Doran Street Los Angeles, CA 90039-1006	323-245-0125	323-548-8814
American Waste Industries	P.O. Box 23926 Los Angeles, CA 90023-0926	323-268-9034	323-268-3736
Arrow Disposal Service, Inc.	14332 Valley Boulevard La Puente, CA 91746-2928	626-336-2255	626-336-2155
Azusa Disposal Company	1017 West Gladstone Street Azusa, CA 91702-4208	626-334-1128	626-336-4686
Briggeman Disposal Service	12949 Telegraph Road Santa Fe Springs CA 90670-4009	562-598-8729	562-594-5524
Browning Ferris Industries	14905 South San Pedro Street Gardena, CA 90248-2031	323-321-1722	323-323-6063
Burrtec Waste Service	600 Live Oak Avenue Irwindale, CA 91706-1344	626-932 -1558	626-932-0022
C & M Fiber, Inc.	P.O. Box 660276 Arcadia, CA 91066	626-599-1893	626-599-1874
CWS	621 West 152nd Street Los Angeles, CA	800-839-5550	310-538-9040
Calsan, Inc.	9821 Downey Norwalk Road Downey, CA 90241-5502	562-869-0901	562-923-8463
Cal-Waste Industries	P.O. Box 23921 Los Angeles, CA 90023-0921	323-588-7475	323-588-9860
Central Waste Service Sub Haulers	545 South Figueroa Street, No. 1017 Los Angeles, CA 90071-1704	310-652-2121	310-223-0147
City of Industry Disposal Company	P.O. Box 3423 La Puente, CA 91744-0423	626-961-6291	626-961-1105
City Wide Service	P.O. Box 748 Baldwin Park, CA 91706-0748	626-357-8666	626-303-4953
Franks Disposal Company	13838 Lomitas Avenue La Puente, CA	626-333-0313	626-968-1709

List of the divisions involved with emergency responsibilities when DOC is activated (2nd floor of LACDPW headquarter)

FIGURE 3
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
EMERGENCY RESPONSE ORGANIZATION



Statewide Task Force

- The CIWMB has put together a task force first meeting was on November 17 cancelled due to southern California fires. Next meeting is set for January 13, 2009.
- Members are: CIWMB, City of LA, LA County, Caltrans, Cal EPA, DTSC, RWQCB, Army Corps of Engineer, State OES and some local cities
- Goal of this task force is to have a standard and comprehensive the MDR Plan
- Next meeting is set for January 13, 2009.