



Building and Safety
22795 Barton Road
Grand Terrace, CA 92313
Phone 909-824-6621, Ext. 250
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City of Grand Terrace
Waste Management Plan - Demolition
Project Number: _____

AUTHORITY: All demolition projects within the City that are five hundred square feet or greater shall comply with Chapter 15.58 of the Grand Terrace Municipal Code, and shall submit a Waste Management Plan prior to beginning any demolition activities, and shall be subject to the provisions of this Chapter. (Section 15.58.050B)

Project Title:

Street Address of Project:

Assessor Parcel Number:

Project Number or Tract Map:

Property Owner Information

Property Owner's Name:

Street Address:

City:

State:

Zip:

Phone:

Fax:

E-Mail address:

Total square footage of project site:

Total square footage of building and structure to be demolished:

Project Period:

From:

To:

Performance Security Information

PERFORMANCE SECURITY: As a condition precedent to the issuance of any permit for construction or demolition for a Covered Project, the Applicant shall post a Performance Security (cash, performance or surety bond, money order, cashier's check) in the amount of one dollar for each estimated square foot, but not less than fifty dollars (Section 15.58.070)

Total amount of Performance Security Due:

Form of Security (Mark One)

Cash ____ Bond ____ M.O. ____ Cashier Chk. ____

Date received by City:

City Receipt Number or Other Record:

Contractor Information

Contractor's Name:

Street Address:

City:

State:

Zip:

Phone:

Fax:

E-Mail Address:

WMP Prepared by: (Print Name)

Signature:

City of Grand Terrace
Waste Management Plan - Demolition
Project Number: _____

Date submitted to City:

Date Reviewed:

APPROVAL: No building or demolition permit shall be issued for any covered project unless and until the WMP Compliance Official has approved the WMP. Approval shall not be required, however, where emergency demolition is required to protect public health or safety. The WMP Compliance Official shall only approve a WMP if he or she determines that all of the following conditions have been met:

- | | | |
|---|-----|----|
| 1. The WMP provides all of the information set forth in this section | YES | NO |
| 2. The WMP indicates that sixty percent of all C&D waste generated by the project shall be diverted (or new diversion goal set in accordance with the Applicant's approved Diversion Exemption request) | YES | NO |
| 3. The applicant has submitted an appropriate Deposit for the project | YES | NO |

NON-APPROVAL

NON-APPROVAL: If the WMP Compliance Official determines that the WMP is incomplete or fails to indicate that at least sixty percent (or new diversion goal set in accordance with the Applicant's approved Diversion Exemption request) of all C&D waste generated by the project will be diverted, he or she shall either:

- | | |
|--|-----------------------------------|
| 1. Return the WMP to the Applicant marked "Disapproved", including a statement of reasons, and will notify the building department, which shall then immediately stop processing the building or demolition permit application, or | Disapproved
(See reason below) |
| 2. Return the WMP to the Applicant marked "Further Explanation Required" | Disapproved
(See reason below) |

Statement of Reasons for Disapproval:

Date of WMP Non-Approval:

Date Applicant Notified Non-Approval:

AUTHORITY: It is required that at least sixty percent of the estimated tonnage of Construction and Demolition Material generated from each Covered Project shall be Diverted from Disposal. The sixty percent of the estimated tonnage of Construction and Demolition Material shall not include any inert Materials that are disposed in an inert Backfill Site (Section 15.58.030)

Reuse, Recycling or Disposal Processes To Be Used

Describe the types of recycling processes or disposal activities that will be used for material generated in the project. Indicate the type of process or activity by number, types of materials, and estimated quantities that will be recycled or disposed in the sanctions below:

- 01-Reuse of building materials or salvage items on site (i.e. crushed base or red clay brick)
- 02-Salvaging building materials or salvage items at an off site salvage or re-use center (i.e. lighting fixtures)
- 03-Recycling source separated materials on site (i.e. crushing asphalt/concrete for reuse or grinding for mulch)
- 04-Recycling source separated materials at an off site recycling center (i.e. scrap metal)
- 05-Recycling commingled loads of demolition malts at an off site mixed
- 06-Recycling materials as Alternative Daily Cover at landfills
- 07-Delivery of soils or mixed inerts to an inert landfill for disposal (inert fill)
- 08-Disposal at a landfill or transfer station
- 09-Other (please describe) _____

Types of Material to be Generated

- | | | | | |
|---|-----------------------|-------------------|---------------------------|----------------------|
| A = Asphalt | C = Concrete | M = Metals | I = Inerts | G = Green Materials |
| D = Drywall | P/C = Paper/Cardboard | W/C = Wire/Cable | S = Soils (Non Hazardous) | |
| M/C = Miscellaneous Construction Debris | | R = Reuse/Salvage | W = Wood | O = Other (describe) |

Section I - Re-used / Recycle Materials

Type of Materials	Type of Activity	Facility to be used/ location	Total Trucks Loads	Total Estimated Quantities		
				Tons	Cubic Yards	Other Wt.

Section II - Disposed Materials

Type of Materials	Type of Activity	Facility to be used/ location	Total Trucks Loads	Total Estimated Quantities		
				Tons	Cubic Yards	Other Wt.
b. Total Disposal						

Section III - Total Materials Generated

				Tons	Cubic YD	Other Wt.
a. Total Reused / Recycled						
b. Total Disposed						
c. Total Generated						

Section VI - Contractor's Landfill Diversion Rate Calculation

Add totals from Section I + Section II

	Tons	Cubic Yards	Other Wt.		
a. Materials Re-Used and Recycled					
b. Materials Disposed					
c. Total Materials Generated (a + b = c)					
d. Landfill Diversion Rate (Tons Only)					

* Use tons only to calculate recycling percentages: Tons Reused/Recycled/Tons Generated = % Recycled

Contractor's Comments (Provide any any additional information pertinent to planned reuse, recycling, or disposal activities):

**City of Grand Terrace
Waste Management Plan
Material Conversion Table**

Material / Item	Size / Amount	Data Source	Pounds
Aluminum scrap, cubed	1 cubic yard	Tellus	424
Aluminum scrap, whole	1 cubic yard	Tellus	175
Aluminum, chips	1 cubic foot	FEECO	7-15
Ashes, dry	1 cubic foot	FEECO	35-40
Ashes, wet	1 cubic foot	FEECO	45-50
Asphalt, crushed	1 cubic foot	FEECO	45
Asphalt/paving, crushed	1 cubic yard	Tellus	1,380
Asphalt/shingles comp, loose	1 cubic yard	Tellus	418.5
Asphalt/tar roofing	1 cubic yard	Tellus	2,919
Brass, cast	1 cubic foot	FEECO	519
Brass, scrap	1 cubic yard	Tellus	906.43
Brick, common hard	1 cubic foot	FEECO	112-125
Brick, whole	1 cubic yard	Tellus	3,024
Bronze	1 cubic foot	FEECO	552
Carpet & padding, loose	1 cubic yard	Tellus	84.4
Cast iron chips or borings	1 cubic foot	FEECO	130-200
Cement, bulk	1 cubic foot	FEECO	100
Cement, mortar	1 cubic foot	FEECO	145
Ceramic tile, loose 6" x 6"	1 cubic yard	Tellus	1,214
Concrete, cinder	1 cubic foot	FEECO	90-110
Concrete, scrap, loose	1 cubic yard	Tellus	1,855
Copper fittings, loose	1 cubic yard	Tellus	1,047.62
Copper pipe, whole	1 cubic yard	Tellus	210.94
Copper, cast	1 cubic foot	FEECO	542
Copper, scrap	1 cubic yard	Tellus	1,093.52
Copper, wire, whole	1 cubic yard	Tellus	337.5
Earth, common, dry	1 cubic foot	FEECO	70-80
Earth, loose	1 cubic foot	FEECO	76
Earth, moist, loose	1 cubic foot	FEECO	78
Earth, mud	1 cubic foot	FEECO	104-112
Earth, wet, containing clay	1 cubic foot	FEECO	100-110
Fiberglass insulation, loose	1 cubic yard	Tellus	17

**City of Grand Terrace
Waste Management Plan
Material Conversion Table**

Material / Item	Size / Amount	Data Source	Pounds
Film plastic/mixed, loose	1 cubic yard	Tellus	22.55
Fines, loose	1 cubic yard	Tellus	2,700
Glass, plate	1 cubic foot	FEECO	172
Glass, plate	1 cubic foot	FEECO	172
Glass, window	1 cubic foot	FEECO	157
Glass, window	1 cubic foot	FEECO	157
Granite, broken or crushed	1 cubic foot	FEECO	95-100
Granite, solid	1 cubic foot	FEECO	130-166
Grass	33 gallons	U.S. EPA	25
Grass	3 cubic yards	U.S. EPA	840
Grass & leaves	3 cubic yards	U.S. EPA	325
Gravel, dry	1 cubic foot	FEECO	100
Gravel, loose	1 cubic yard	Tellus	2,565
Gravel, wet	1 cubic foot	FEECO	100-120
Gypsum, pulverized	1 cubic foot	FEECO	60-80
Gypsum, solid	1 cubic foot	FEECO	142
HDPE film plastics, semi-compacted	1 cubic yard	Tellus	75.96
Iron cast ductile	1 cubic foot	FEECO	444
Iron, ore	1 cubic foot	FEECO	100-200
Iron, wrought	1 cubic foot	FEECO	480
Large limbs & stumps	1 cubic yard	Tellus	1,080
LDPE film plastics, semi-compacted	1 cubic yard	Tellus	72.32
Lead, commercial	1 cubic foot	FEECO	710
Lead, scrap	1 cubic yard	Tellus	1,603.84
Leaves	33 gallons	U.S. EPA	12
Leaves	3 cubic yards	U.S. EPA	200-250
Leaves	3 cubic yards	U.S. EPA	200-250
Leaves, dry	1 cubic yard	Tellus	343.7
Lime, hydrated	1 cubic foot	FEECO	30
Limestone, crushed	1 cubic foot	FEECO	85-90
Limestone, finely ground	1 cubic foot	FEECO	99.8
Limestone, solid	1 cubic foot	FEECO	165

**City of Grand Terrace
Waste Management Plan
Material Conversion Table**

Material / Item	Size / Amount	Data Source	Pounds
Metal scrap	55 gallon	U.S. EPA	226.5
Metal scrap	cubic yard	U.S. EPA	906
Mortar, hardened	#cubic yard	FEECO	#"
Mortar, wet	1 cubic foot	FEECO	1' "
Mud, dry close	1 cubic foot	FEECO	1#'
Mud, wet fluid	1 cubic foot	FEECO	1\$'
Nickel, rolled	1 cubic foot	FEECO	' &#
Paint can	' YS^a`	GÆZ7B3	SZ#
Pallet, wood or plastic	ShMSY&` j &`	U.S. EPA	&
Particle board, loose	#cubic yard	FWge	&S`Z#&
Pebbles	#cubic yard	8775A	+`Z#"
Pine needles, loose	1 cubic yard	FWge) &S
Plastic, bubble wrap	%YS^a` e	GÆZ7B3	%
Plastic, bucket	\$ YS^a` e	GÆZ7B3	1Z#
Plastic, bucket w/ metal handle	' YS^a` e	GÆZ7B3	#Z-
Plastic, HDPE gallon containers (not beverage)	1 YS^a`	GÆZ7B3	"Z (
Plastic, mixed HDPE & PET	1 cubic yard	GÆZ7B3	%\$
Plastic, pallet, 48" x 48"		GÆZ7B3	&
Plastic, sheeting	ecgScMSdV	GÆZ7B3	#
Plastic, whole, uncompacted PET	#UgIUkScV	GÆZ7B3	%Z&
Plywood, sheet 2' x 4'	1 cubic yard	Tellus)) (Z%
Polystyrene, packaging	%YS^a`	GÆZ7B3	1.5
Polystyrene, rigid, whole	1 cubic yard	Tellus	21.76
Prunings, dry	1 cubic yard	Tellus	36.9
Prunings, green	1 cubic yard	Tellus	46.69
Prunings, shredded	1 cubic yard	Tellus	527
Pumice, ground	1 cubic foot	FEECO	40-45
Pumice, stone	1 cubic foot	FEECO	39
PVC, loose	1 cubic yard	Tellus	341.12
Quartz, sand	1 cubic foot	FEECO	70-80
Quartz, solid	1 cubic foot	FEECO	165
Radiator, ferrous	each	U.S. EPA	20

**City of Grand Terrace
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Material / Item	Size / Amount	Data Source	Pounds
Rock, loose	1 cubic yard	Tellus	2,570
Rock, soft	1 cubic foot	FEECO	100-110
Roofing/shake shingle, bundle	#cubic yard	Tellus	435.3
Rope	1 cubic foot	FEECO	42
Sand, dry	1 cubic foot	FEECO	90-110
Sand, loose	1 cubic yard	Tellus	2,441
Sand, moist	1 cubic foot	FEECO	100-110
Sand, wet	1 cubic foot	FEECO	110-130
Sawdust, loose	1 cubic yard	Tellus	375
Sheetrock scrap, loose	#cubic yard	FWge	393.50
Slag, crushed	#cubic yard	Tellus	1,998
Slag, loose	1 cubic yard	FWge	2,970
Slag, solid	1 cubic foot	FEECO	160-180
Slate, fine ground	1 cubic foot	FEECO	80-90
Slate, granulated	1 cubic foot	FEECO	95
Slate, solid	1 cubic foot	FEECO	165-175
Soil/sandy loam, loose	1 cubic yard	Tellus	2,392
Steel, shavings	1 cubic foot	FEECO	58-65
Steel, solid	1 cubic foot	FEECO	487
Steel, trimmings	#cubic foot	FEECO	75-50
Stone or gravel	1 cubic foot	FEECO	95-100
Stone, crushed	1 cubic foot	FEECO	100
Stone, crushed, size reduced	1 cubic yard	Tellus	2,700
Stone, large	1 cubic foot	FEECO	100
Straw, baled	1 cubic foot	FEECO	24
Straw, loose	1 cubic foot	FEECO	3
Tin can, ferrous	#2.5	U.S. EPA	0.13
Tin can, ferrous	#5	U.S. EPA	0.28
Tin can, ferrous	#10	U.S. EPA	0.77
Tin, cast	1 cubic foot	FEECO	455
Tire, bus		U.S.EPA	75
Tire, car		U.S. EPA	20

**City of Grand Terrace
Waste Management Plan
Material Conversion Table**

Material / Item	Size / Amount	Data Source	Pounds
Tire, truck		U.S. EPA	60-100
Wood ashes	1 cubic foot	FEECO	48
Wood chips, shredded	1 cubic yard	U.S. EPA	500
Wood scrap, loose	1 cubic yard	Tellus	329.50
Wood, bark, refuse	1 cubic foot	FEECO	30
Wood, pulp, moist	1 cubic foot	FEECO	45-65
Wood, shavings	1 cubic foot	FEECO	15
Yard trimmings, mixed	1 cubic yard	U.S. EPA	108
Yard trimmings, mixed	40 cubic yards	U.S. EPA	4,320

Sources

***Source acronyms used**

CIWMB: California Integrated Waste Management Board

FEECO: FEECO Incorporated

Tellus: Tellus Institute, Boston Massachusetts

U.S., EPA: United States Environmental Protection Agency (Business Users Guide)