

SECTION 01572 SOLID RESOURCES MANAGEMENT

1.1 DESCRIPTION

- A. This Section includes procedures for ensuring optimal diversion of solid resources generated by the Work within the limits of the Construction Schedule, Contract Sum, and available materials, equipment, and products.
 - 1. CONTRACTOR shall participate in promoting efforts of CITY to create a resource-efficient and environmentally sensitive project and to effect optimum control of solid waste and recoverable resources generated in the Work.
 - 2. Pursuant to the CITY'S Recycled Product Procurement Ordinance and Amendments (CF 93-2092) and President Clinton's Executive Order (Federal Acquisition, Recycling, and Waste Prevention), CONTRACTOR shall use products with post-consumer recycled content to the greatest extent feasible.
 - 3. Refer to the most recent issue of "A Resource Guide to Recycled-Content Construction Products," published by the Solid Resources City Wide Recycling Division of the Bureau of Sanitation (call 213-473-8228 to obtain a copy).
- B. Related Sections: Documents affecting works of this Section include, but are not necessarily limited to, the following Contract Specifications:
 - 1. Removal, Cleanup and Demobilization in Section 01740 of General Requirements.
 - 2. Earthwork in Section 300 of Standard Specifications.

1.2 DEFINITIONS

- A. Class III Landfill: A landfill that accepts non-hazardous resources such as household, commercial, and industrial waste, resulting from construction, remodeling, repair, and demolition operations. A Class III landfill must have a solid waste facilities permit from the California Integrated Waste Management Board (CIWMB) and is regulated by the Local Enforcement Agency (LEA).
- B. Construction and Demolition Waste: Includes all non-hazardous solid resources resulting from construction, remodeling, alterations, repair, and demolition operations.
- C. Disposal: Acceptance of solid wastes at a legally operating facility for the purpose of landfilling. Includes Class III landfills and inert fills.
- D. Inert Backfill Site: A location, other than inert fill or other disposal facility, to which inert materials are taken for the purpose of filling an excavation, shoring, or others soils engineering operation.
- E. Inert Fill: A facility that legally accepts inert waste such as asphalt and concrete exclusively for the purpose of disposal.

- F. Inert Solids/Inert Waste: Non-liquid solid resources including, but not limited to, soil and concrete, that does not contain hazardous waste or soluble pollutants at concentrations in excess of water-quality objectives established by a regional Water Board pursuant to Division 7 (Section 13000 et seq.) of the California Water Code and does not contain significant quantities of decomposable solid resources.
- G. Mixed Debris: Loads that include commingled recyclable and non-recyclable materials generated at the construction site.
- H. Mixed Debris Recycling Facility: A solid resources processing facility that accepts loads of commingled construction and demolition debris for the purpose of recovering re-usable and recyclable materials and disposing the non-recyclable residual materials.
- I. Permitted Waste Hauler: A company that possesses a valid and current permit from the Los Angeles County Department of Public Health, to collect and transport solid wastes from individuals or businesses for the purpose of recycling or disposal in the Los Angeles County.
- J. Recycling: The process of sorting, cleansing, treating and reconstituting materials for the purpose of using the altered form in the manufacture of a new product. Recycling does not include burning, incinerating or thermally destroying solid waste.
- K. On-site Recycling: Materials that are sorted and processed for use in an altered form in the Work, (e.g. concrete is crushed for use as base for a parking lot on the site).
- L. Off-site Recycling: Materials hauled to a location and used in an altered form in the manufacture of a new product.
- M. Recycling Facility: An operation that can legally accept materials for the purpose of processing the materials into an altered form for the manufacture of a new product. Depending on the types of materials accepted and operating procedures, a recycling facility may or may not be required to have a Solid Waste Facilities permit from the CIWMB or be regulated by the LEA.
- N. Re-use: Materials that are recovered for use in the same form. This includes materials are used on-site or off-site. Refers also to Salvage Material, in which materials recovered for re-use and sold or donated to a third party.
- O. Source-Separated Materials: Materials that are sorted at the site of generation by individual material type for the purpose of recycling, i.e., loads of concrete that are source-separated for delivery to a base course recycling facility.
- P. Solid Waste: Materials that have been designated as non-recyclable and are discarded for the purposes of disposal.
- Q. Transfer Station: A facility that can legally accept solid wastes for the purpose of temporarily storing the materials for re-loading onto other trucks and transporting them to a landfill for disposal, or recovering some materials for re-use or recycling. Transfer stations must be permitted by the CIWMB and regulated by the LEA.

1.3 SUBSTITUTIONS

- A. Should the CONTRACTOR desire to use materials, equipment or products which meet the requirements of the Contract Documents but are more environmentally sensitive, the CONTRACTOR shall submit these substitutions in accordance with the submittal provisions for "OR EQUAL" and "SUBSTITUTION" items as indicated in Section 01630 – SUBSTITUTION AND "OR EQUAL" SUBMITTALS of the GENERAL REQUIREMENTS.

1.4 SUBMITTALS

- A. Solid Resources Management Plan:
 - 1. Prior to the Bid, CONTRACTOR shall conduct a site assessment and estimate the types and quantities of materials under the Work that are anticipated to be feasible for on-site processing, source separation for recycling, or re-use, and shall note the procedures intended for a recycling, re-use, or salvage program. Refer to the most recent issue of "Construction and Demolition Waste Recycling Guide", and the "Wood You Recycle?" guide, published by the CITY'S Solid Resources City Wide Recycling Division, for a partial list of facilities that accept these materials for recycling.
 - 2. After award of Contract and prior to the commencement of the Work, CONTRACTOR shall schedule and attend a meeting with a representative of the CITY'S Solid Resources City Wide Recycling Division at (213) 473-8228, and the Bureau of Contract Administration INSPECTOR to discuss the CONTRACTOR'S proposed Solid Resources Management Plan, and to develop a mutual understanding regarding the recycling, re-use, and recycled-content procurement programs. Not more than twenty (20) working days after the meeting, CONTRACTOR shall prepare and submit to ISWMO, a written Solid Resources Management Plan including, but not limited to, the following (submit in format provided herein as Attachment A):
 - a. CONTRACTOR and Project identification information.
 - b. Procedures to be used.
 - c. Materials to be re-used and recycled.
 - d. Estimated quantity of materials.
 - e. Names and location of re-used and recycling facilities/sites.
 - 3. If applicable, revise and resubmit Solid Resources Management Plan in coordination with the representative of the CITY'S Solid Resources City Wide Recycling Division.
 - a. The CITY'S review and comment on the CONTRACTOR'S Solid Resources Management Plan will not otherwise relieve the CONTRACTOR of responsibility for adequate and continuing control of pollutants and other environmental protection measures.

- B. Required Submittal of Summary of Diversion and Disposal With Each Application for Progress Payment:
1. A summary of recyclables and solid resources generated by the construction and demolition operations. Submit on form provided herein (Attachment B). Failure to submit the form and its supporting documentation may render the application for progress payment incomplete and delay progress payments. Include manifests, weight tickets, receipts, and invoices specifically identifying the Project and materials sent to:
 - a. Source Separated Recycling Facilities
 - b. Mixed Debris Recycling Facilities
 - c. Class III Landfills
 - d. Inert Materials accepted at Class III Landfills as daily cover
 - e. Inert Fills
 - f. Inert Backfill Sites other than Inert Fills
 2. With each submittal of CONTRACTOR'S application for process payment, the CONTRACTOR is required to submit to the INSPECTOR the attached, "Summary of Solid Waste Diversion and Disposal," quantifying all materials generated in the Work, disposed in Class III Landfills, or diverted from disposal through recycling. Indicate zero (0) if there is no quantity to report for a type of material. As indicated on the form:
 - a. Disposal or recycling reporting shall be made either in tons or in cubic yards. If scales are available at disposal or recycling facility, report in tons; otherwise, report in cubic yards.
 - b. Indicate locations to which materials are delivered for disposal, recycling, accepted as daily cover, or taken for inert backfill.
 - c. The Summary Form must be accompanied by legible copies of weigh tickets, receipts, or invoices that specifically identify the project generating the material. Said documents must be from recyclers and/or disposal site operators that can legally accept the materials for the purpose of re-use, recycling, or disposal.
 - d. Indicate the Project title, CITY Work Order Number; progress payment number; name of the company completing the Summary Form and compiling backup documentation; the printed name, signature, and daytime phone number(s) of the person completing the form, the beginning and ending dates of the period covered on the Summary Form; and the date that the Summary Form is completed.

1.5 RECYCLING, RE-USE, AND SALVAGE REQUIREMENTS

- A. Recycling, Re-Use, and Salvage Facilities: The most recent issue of the "Construction and Demolition Waste Recycling Guide," and the "Wood You Recycle?" guide, published by the CITY'S Solid Resources City Wide Recycling Division, are incorporated herein by reference. For more information, contact the CITY'S Solid Resources City Wide Recycling Division, 433 S. Spring Street, Suite 500, Los Angeles 90013, (213) 473-8228; FAX (213) 473-8232. These guides are updated regularly.
- B. Development and Implementation of Recycling Procedures: Based upon Contract Documents, the CONTRACTOR'S Solid Resources Management Plan, estimated quantities of available materials, and availability of recycling facilities, CONTRACTOR shall develop and implement procedures to re-use, salvage, and recycled materials to the greatest extent feasible. Procedures shall include source separated recycling, as well as mixed recycling efforts. Procedures shall include consideration of on-site recycling.
1. On-site or Off-site Recycling Source-Separated Materials: CONTRACTOR shall develop and implement a program to include source separation of solid resources, to the greatest extent feasible, of the following types:
 - a. Asphalt
 - b. Concrete, concrete block, slump stone (decorative concrete block), and rocks
 - c. Dirt
 - d. Metal, ferrous and non-ferrous
 - e. Wood
 - f. Green materials (i.e. tree trimmings)
 - g. Other materials, as appropriate, such as red clay brick and corrugated cardboard

Off-site Recyclables shall be legally transported to a source separated or mixed debris-recycling facility. On-site Recycling program shall produce a quality product to meet the requirements identified in the Contract Documents, subject to approval of the CITY ENGINEER. On-site recycling Plans shall also estimate the amount to be used in the Work and include a program for off-site recycling of any excess material that cannot be used in the Work. At no time shall the on-site recycling, stock piling of separated or to-be-separated materials cause or create any nuisance or health menace to the site, other public or private properties.
 2. Mixed Debris Recycling: Develop and implement a program to transport loads of commingled construction and demolition materials that cannot be feasibly source-separated to a mixed recycling facility. These facilities are listed in the most recent issue of the "Construction and Demolition Waste Recycling Guide", published by the CITY'S Solid Resources City Wide Recycling Division.

3. Salvageable Items: Perform a site pre-assessment, identify materials that are feasible for salvage, determine requirements for site storage, and transportation of materials to a salvage facility. A partial list of facilities is included in the most recent issue of the "Construction and Demolition Waste Recycling Guide", published by the CITY'S Solid Resources City Wide Recycling Division.
 4. Disposal Operations:
 - a. Using a permitted waste hauler or its own trucking services, CONTRACTOR shall legally transport and dispose of materials that cannot be delivered to a source separated or mixed recycling facility, to a transfer station or disposal facility that can legally accept the materials for the purpose of disposal.
 - b. Do not burn, bury or otherwise dispose of solid waste on the project Jobsite.
 5. Hauling:
 - a. CONTRACTOR is responsible for arranging collection of materials, by a permitted waste hauler or using its own trucks, to facilities that can legally accept construction and demolition materials for purpose of re-use, recycling, or disposal.
 - b. Prior to delivering materials, CONTRACTOR shall familiarize itself with the Specifications for acceptance of construction and demolition materials at recycling facilities. The most recent issue of "Construction and Demolition Waste Recycling Guide", published by the CITY'S Solid Resources City Wide Recycling Division, includes a partial list of these facilities.
- C. Participate in Re-Use Programs: Implement a re-use program to the greatest extent feasible. Alternatives include:
1. California Materials Exchange (CAL-MAX) Program sponsored by the California Integrated Waste Management Board. CAL-MAX is a free service provided by the California Integrated Waste Management Board, designed to help businesses find markets for materials that traditionally would be discarded. The premise of the CAL-MAX Program is that material discarded by one business may be a resource for another business. To obtain a current Materials Listings Catalog, call CAL-MAX/California Integrated Waste Management Board at (877) 520-9703.
 2. LA Shares is a non-profit materials exchange that accepts excess reusable materials from private donors and distributes them to various non-profit organizations throughout the CITY. Contact LA Shares at (213) 485-1097.
 3. Habitat for Humanity: Los Angeles (HFH-LA), a non-profit housing organization that rehabilitates and builds housing for low-income families. HFH-LA sites requiring donated materials vary. Contact HFH-LA at (213) 975-9757.
 4. Other re-use organizations or activities.

- D. Value: The CITY makes no claims or assumes any value of any material, equipment or product to be removed from existing structures or job site as described in Subsection 1.4.D of Section 01140 – CONTRACTOR'S USE OF THE PREMISES of the GENERAL REQUIREMENTS.

(END OF SECTION)

(SEE ATTACHMENTS)

“A” ATTACHMENTS TO SECTION 01572

“A” Attachments to General Requirements Section 01572 consists of two (2) document (one of which is a continuation sheet), as follows:

| ATTACHMENT NUMBER | TITLE OF ATTACHMENT | NUMBER OF PAGES IN THIS ATTACHMENT |
|--------------------------|---|---|
| 01572-A1 | Format for Contractor's Solid Resources Management Plan | 1 |
| 01572-A2 | Format for Contractor's Solid Resources Management Plan, CONTINUATION SHEET | 1 |

**FORMAT FOR CONTRACTOR'S
SOLID RESOURCES MANAGEMENT PLAN**

Project Title and Address:

W.O. Number:

CONTRACTOR'S Name:

Street Address:

CITY, State, Zip:

Phone:

FAX:

Date Submitted:

These are procedures to be used for re-using, salvaging, or recycling materials. Indicate the procedures (by number), types of materials, and estimated quantities that will be recycled or disposed in the sections below:

1. Hand-wrecking to recover salvageable materials
2. On-site concrete and asphalt crushing for use on-site
3. On-site concrete and asphalt crushing for use off-site
4. Source separation of materials and separately hauling to recyclers
5. Hauling mixed recyclables to a mixed debris recycling facility
6. Other (please describe):

RE-USE/SALVAGE/RECYCLING OF MATERIALS

| Type of Material | No. of Procedure to be Used (as above) | Facility to be Used/Location | Estimated Quantities | | |
|------------------------------|--|--------------------------------------|----------------------|-------------|-------|
| | | | Tons | Cubic Yards | Units |
| <i>Example: Concrete</i> | <i>4</i> | <i>ABC Recyclers Los Angeles</i> | <i>120</i> | | |
| Asphalt | | | | | |
| Concrete | | | | | |
| Soils (clean) | | | | | |
| Wood/Green | | | | | |
| Scrap Metal | | | | | |
| Salvage Items Describe: | | | | | |
| Other Describe: | | | | | |
| Misc. Construction Debris | | | | | |

**FORMAT FOR CONTRACTOR'S
SOLID RESOURCES MANAGEMENT PLAN
CONTINUATION SHEET**

DISPOSAL OF MATERIALS

Project Title and Address:

W.O. Number:

| Type of Materials | Facility to be Used/Location | Estimated Quantities | | |
|--|-------------------------------------|----------------------|-------------|-------|
| | | Tons | Cubic Yards | Units |
| <i>Example: Misc. Const. Debris</i> | <i>XYZ Disposal Los Angeles</i> | 60 | | |
| Asphalt | | | | |
| Concrete | | | | |
| Soils (clean) | | | | |
| Wood/Green Materials | | | | |
| Scrap Metal | | | | |
| Other (i.e. Cardboard, Red Clay Brick) Please describe: | | | | |
| Misc. Construction Debris | | | | |

“B” ATTACHMENTS TO SECTION 01572

“B” Attachments to General Requirements Section 01572 consists of three (3) documents (one of which is a continuation sheet), as follows:

| ATTACHMENT NUMBER | TITLE OF ATTACHMENT | NUMBER OF PAGES IN THIS ATTACHMENT |
|--------------------------|--|---|
| 01572-B1 | City of Los Angeles, Bureau of Contract Administration Bureau of Engineering, Bureau of Sanitation / Solid Resources City Wide Recycling Division, SOLID WASTE MANAGEMENT INFORMATION SHEET | 1 |
| 01572-B2 | City of Los Angeles / Board of Public Works, SUMMARY OF SOLID WASTE DISPOSAL AND DIVERSION form | 1 |
| 01572-B3 | City of Los Angeles / Board of Public Works, SUMMARY OF SOLID WASTE DISPOSAL AND DIVERSION form, CONTINUATION SHEET | 1 |

ATTACHMENT 01572-B1

**CITY OF LOS ANGELES
BUREAU OF CONTRACT ADMINISTRATION
BUREAU OF ENGINEERING
BUREAU OF SANITATION / SOLID RESOURCES CITY WIDE RECYCLING DIVISION**

SOLID WASTE MANAGEMENT INFORMATION SHEET

Assembly Bill 939. Pursuant to the California Integrated Solid Waste Management Act of 1989, the CITY is required to reduce the amount of solid waste disposed in landfills 25% by 1995 and 50% by the year 2000. Contracts that include work that will generate solid waste, including construction and demolition debris, have been targeted for participation in source reduction, re-use, and recycling programs. The CONTRACTOR is urged to manage solid waste generated by the Work, to divert waste from disposal in landfills, particularly Class III landfills, and to maximize source reduction, re-use, and recycling of construction and demolition debris.

CONTRACTOR may contact the Solid Resources City Wide Recycling Division of the Bureau of Sanitation at **[(213) 473-8228]** for information about recycling construction and demolition materials.

Reporting Disposal and Diversion of Solid Waste. Upon submittal of its applications for progress payment, CONTRACTOR is required to submit to the INSPECTOR the attached summary of solid waste generated by the Work, quantifying all solid waste materials disposed in Class III landfills, diverted from disposal through recycling, accepted at Class III landfills as daily cover, disposed in inert fills, or taken for inert backfill. As indicated on the Summary Form:

- a. Report disposal or recycling in tons or cubic yards: if trucks are weighed at disposal or recycling facility, report in tons; otherwise report in cubic yards. Indicate zero (0) if there is no quantity to report for a type of material.
- b. Indicate all locations to which materials are delivered for disposal, recycling, accepted as daily cover, or taken for inert backfill.
- c. The Summary Form must be accompanied by legible copies of weigh tickets, receipts, or invoices that specifically identify the project generating the material. Said documents must be from recyclers and/or disposal site operators that can legally accept the materials. If materials are taken to an inert backfill site and weigh tickets, receipts, or invoices are not available, CONTRACTOR shall provide documentation on its letterhead identifying the address to which materials were taken, name of owner/operator, type of materials, and tons or cubic yards disposed, specifically identifying the project generating the materials.
- d. Indicate the name of the company completing the Summary Form and compiling backup documentation; the printed name, signature, and daytime phone number of the person completing the form, the beginning and ending dates of the period covered on the Summary Form; and the date that the Summary Form is completed. Indicate Progress Payment Number with which Summary is submitted in the space provided.

**CITY OF LOS ANGELES/BOARD OF PUBLIC WORKS
SUMMARY OF SOLID WASTE DISPOSAL AND DIVERSION**

PROJECT TITLE: _____ **W.O#:** _____ **ROGRESS PMT. #:** _____
ADDRESS: _____

| Type of Material | (a) Disposed in Class III Landfills | | (b) (Circle One) Diverted from Class III Landfills by Recycling or Accepted at CLIII Landfill as Daily Cover | | (c) Disposed in Inert Fills | | (d) Taken to Inert Backfill Site | |
|---|--|----|---|----|--------------------------------|----|-------------------------------------|----|
| | Tons | CY | Tons | CY | Tons | CY | Tons | CY |
| ASPHALT Name of Facility/Site Where Taken: | | | | | | | | |
| CONCRETE Name of Facility/Site Where Taken: | | | | | | | | |
| METAL Name of Facility/Site Where Taken: | | | | | | | | |
| OTHER SEGREGATED MATERIALS (Describe): Name of Facility/Site Where Taken: | | | | | | | | |
| MISCELLANEOUS CONSTRUCTION WASTE Name of Facility/Site Where Taken: | | | | | | | | |
| Total | | | | | | | | |

COMPANY NAME _____ DATE OF REPORT: _____

NAME OF PERSON COMPLETING FORM: (Please Print) : _____

SIGNATURE: _____ TITLE: _____

DAYTIME PHONE: (_____) _____

PERIOD COVERED IN THIS REPORT: FROM _____ TO _____

**CITY OF LOS ANGELES/BOARD OF PUBLIC WORKS
SUMMARY OF SOLID WASTE DISPOSAL AND DIVERSION
CONTINUATION SHEET**

PROJECT TITLE: _____ **W.O#:** _____ **ROGRESS PMT. #:** _____
ADDRESS: _____

| Type of Material | (a) Disposed in Class III Landfills | | (b) (Circle One) Diverted from Class III Landfills by Recycling or Accepted at CLIII Landfill as Daily Cover | | (c) Disposed in Inert Fills | | (d) Taken to Inert Backfill Site | |
|---|--|----|---|----|--------------------------------|----|-------------------------------------|----|
| | Tons | CY | Tons | CY | Tons | CY | Tons | CY |
| ASPHALT Name of Facility/Site Where Taken: | | | | | | | | |
| CONCRETE Name of Facility/Site Where Taken: | | | | | | | | |
| METAL Name of Facility/Site Where Taken: | | | | | | | | |
| OTHER SEGREGATED MATERIALS (Describe): Name of Facility/Site Where Taken: | | | | | | | | |
| MISCELLANEOUS CONSTRUCTION WASTE Name of Facility/Site Where Taken: | | | | | | | | |
| Total | | | | | | | | |

COMPANY NAME _____ DATE OF REPORT: _____
 NAME OF PERSON COMPLETING FORM: (Please Print) : _____
 SIGNATURE: _____ TITLE: _____
 DAYTIME PHONE: (_____) _____
 PERIOD COVERED IN THIS REPORT: FROM _____ TO _____