



# CONSTRUCTION WASTE MANAGEMENT PLAN

**Sundt Construction, Inc.**

**Rongxiang Xu Bioscience Innovation Center**

## INTENT

The intent of this plan is to maximize the quantity of construction and demolition debris that is diverted from disposal in landfills and at incineration facilities and to conserve natural resources by redirecting recyclable materials for reuse.

This plan applies to all waste created by the project; both demolition and construction.

## GOALS

This project is required, by conditions of development, to divert no less than **75%** of construction and demolition debris from disposal in landfills and incineration facilities. Percentage shall be determined by weight. LEED and Los Angeles Green Building Code, (LAGBC) standards and definitions will apply. Final calculations will be input on the LEED-CS v2009 template by ASAP.

All subcontractors shall participate fully in this Plan and assist the Project Team in achieving these goals.

## COORDINATION

Sundt Construction has appointed **Kevin Smith** as recycling coordinator, responsible for the implementation of this plan on site. In addition, the recycling coordinator will assist ASAP, as needed, to obtain documentation from haulers and processing facilities as required by CALGreen and LEED.

**The appointed Construction Hauler is Ware Disposal and the Process Facility is Madison Materials located at 1035 E 4th Street Santa Ana, CA 92701.**

## MATERIALS TO BE DIVERTED

The following materials will be diverted from landfill or incineration:

- Cardboard
- Clean dimensional lumber, wood decking, wood siding finishes and any other excess or discarded wood materials
- Beverage containers
- Concrete
- Bricks
- Glass
- Metals (steel, aluminum, other) including rebar.
- Concrete masonry units (CMU)
- Asphalt
- Gypsum Board
- Plaster
- Land-clearing debris; LAGBC requires that 100% of this material be recycled. Note that its weight cannot be counted for LEED and should not be included with other materials in documentatio

## **ACCEPTABLE METHODS OF DIVERSION**

The following waste diversion methods may be used. A diversion strategy shall be implemented for all waste types that are produced onsite.

1. Mixed construction and demolition waste (mixed C&D) will be collected in adequately sized, labeled, commingled waste containers for off-site separation and recycling. Recycling facility shall be certified by LA City and have an annual LA City certified recycling percentage of over 75%.

Intended changes in haulers and/or recycling facilities must be submitted to Sundt Construction and ASAP and approved of by same before any waste materials are hauled or processed by these entities.

2. Materials will be salvaged for use on or off site. Materials intended for salvage will be stored in a clean, dry area, separated from other waste. Salvaged materials will be reused on this site or another site, sold or donated.
3. Adequately sized, labeled, commingled waste containers/dumpsters shall be provided as needed for source-separated demolition waste and non-construction trash (lunch and beverage containers, etc.) to prevent contamination of recyclable materials.

## **DIVERSION DOCUMENTATION**

1. For mixed C&D waste, separated off-site:
  - Only facilities certified by the City of Los Angeles with a certified diversion rate of 75% or more may be used.
  - By the 15th of each month, every waste hauler and processor shall provide Sundt Construction and ASAP:
    - The previous month's receipts including project name and location, date, hauler name, weight of load and receiving facility.
    - A monthly summary by recycling facility indicating material types, weight, weight recycled, percentage recycled and date of each load received. Recycling percentages must either be:
      - Documented, project specific recycling percentages
      - LA City annual certified rate for the processing facility, for the year in which haul occurred.

Intended changes in haulers and/or recycling facilities must be submitted to Sundt Construction and ASAP and approved of by same before any waste materials are hauled or processed by these entities.

2. Salvaged Materials: Provide date-stamped photograph(s) of stockpiled materials on site so as to verify approximate quantity. Provide weight of salvaged materials by scale (provide receipt or photograph of scale) or, if not possible, multiply volume or quantity by and accepted,

documented standard weight per volume measure (cubic yards, linear feet, etc. ) or by weighing a measured volume of the material and multiplying by total volume.

Salvaged materials re-used on site contribute to an additional project requirement for regional materials. Weight or volume and cost of removal, storage, and re-installation of the materials. must be captured and forwarded to Sundt Construction and ASAP.

If material is sold or donated, provide 3<sup>rd</sup> party receipt of transaction.

3. Inert materials processed on site: provide weight of material processed. Deduct weight of any material not able to be reused. Document process by which weight was determined.
4. Trash and non-recyclable items: provide weight and name and address of landfill, incinerator or other receiving facility location.

#### **WASTE COLLECTION LOCATIONS:**

A dedicated waste collection area is located at the center of the project site in order to efficiently recycle and dispose nonhazardous construction and demolition waste. The waste is placed in the labeled commingled waste containers, which include 5 cy and 30 cy bins. All subcontracting trades have been properly notified and trained to place all nonhazardous construction and demolition waste within the provided the commingled waste containers for off-site separation and recycling. The collection bins are accessible to waste haulers collection of comingled waste materials. A dedicated collection bin is also located within the same area for collecting plastic bottles and aluminum cans. Aggregate base has been placed within the dedicated waste collection area for good housekeeping. The comingled bins are covered and secured with plastic tarps at the end of each day. Hazardous wastes will be separated, stored in a designating area and disposed of according to local regulations by a licensed hazardous waste vendor.

#### **Waste Prevention**

Waste generation shall be minimized by the following measures:

- Each major vendor shall be required, by contract, to cooperate in planning for minimal or take-back packaging, and just-in-time delivery.
- All wood and steel framing member cutting shall be limited to a centralized location or locations to maximize reuse and make collection easier.
- Unused pieces of cut materials will be kept like with like, in a clean, centralized location, for use as-needed. [Construction Company Name] Construction employees and subcontractors will be informed of scrap locations.
- Liquid materials shall be promptly closed and kept uncontaminated for re-use.

- The recycling coordinator shall inspect all construction waste in the dumpsters before removal for compliance with CWM plan
- C&D waste shall not be contaminated by other kinds of waste.
- Recycling containers will be labeled clearly as to what may be disposed in each, and in the most appropriate languages, and located in close proximity to the building(s) under construction.

### **CONTAMINATION PREVENTION MEASURES**

The following best practice measures for keeping materials destined for recycling and reuse free of contaminants and wet waste will be used.

- Label recycling and trash containers in English and Spanish, with acceptable/unacceptable materials posted. Signage can show a representative picture of the materials to be recycled. Signage shall stress that wet waste should not be introduced in the bins reserved for materials to be recycled.
- Specific eating areas shall be designated onsite and eating shall be prohibited elsewhere on site.
- Sufficient garbage containers shall be provided for non-recyclable materials and located next to recycling containers and in designated eating areas.
- Containers shall be covered securely when site is not supervised and when rain is predicted or occurring.
- Hazardous wastes will be separated, stored in a designating area and disposed of according to local regulations by a licensed hazardous waste vendor.

### **COMMUNICATION, EDUCATION AND MOTIVATION MEASURES**

Per the conditions of development for this project, all signage and other communication involved in the implementation of this plan, including the plan itself, shall be provided in English and Spanish.

To ensure complete and correct adoption of this CWM plan, the following measures will be employed:

- Recycling requirements have been incorporated into the project specifications and apply to all trades.
- An onsite, pre-construction meeting will be conducted with representatives of all subcontractors to familiarize them with the required BMPs regarding waste diversion.
- Additional, periodic orientation meetings shall be held, where attendance is mandatory, for all new subcontractors' key field personnel to reinforce participants' commitments to the project waste diversion goals and requirements. An attendance sheet with signoffs will be used to track compliance by all subcontractors.

- Waste prevention and recycling activities will be on the agenda and discussed at each job meeting.
- The Recycling Coordinator will give each contractor and subcontractor a paper copy of the CWM plan, provide instruction in appropriate separation and handling procedures, and show them the recycling area for their scope.
- A list of acceptable/unacceptable materials for recycling or reuse will be posted on all recycling containers and in the eating area.
- Subcontractors who are caught throwing unacceptable materials into recyclable material only bins will be required to remove the unacceptable material from bins and dispose of it properly. If the guilty party refuses to remove the unacceptable material from the bin, they will be back-charged for Contractor labor to remove the unacceptable material.

## **GENERAL**

Changes to the practices authorized in this plan shall be referred to Sundt Construction and ASAP for approval before they are enacted. Accepted changes will form an addendum to this plan.

Submit required documentation, in electronic form only, to both:

Elliot Reinfeld, Senior Project Manager  
ASAP  
Phone: 818-501-2020  
Email: [agreenplan@sustainpro.org](mailto:agreenplan@sustainpro.org)

Please contact us at anytime for more information or to suggest improvements to this plan.