




POLICIES, PROCEDURES, GUIDELINES, AND FACILITY CERTIFICATION

Subject CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING AND REUSE ORDINANCE POLICIES, PROCEDURES, GUIDELINES, AND FACILITY CERTIFICATION	Effective Date: August 19, 2024	Page(s): Page 1 of 21
	Approved By: 	

REQUIREMENTS

The Los Angeles County Code of Ordinances for Title 20--Utilities, Chapter 20.87, Construction and Demolition (C&D) Debris Recycling and Reuse regulates the recycling, reuse, and disposal of C&D debris to further the County's efforts to achieve the waste diversion goals in the County's Zero Waste Plan and the OurCounty Sustainability Plan, comply with new state regulations, and reduce illegal dumping.

POLICY AND GUIDELINES

Los Angeles County Code, Chapter 20.87, regarding the Recycling and Reuse of Construction and Demolition Debris (Ordinance), requires the Director of Public Works (Public Works) to establish policies, procedures, and guidelines that are reasonably necessary to implement the requirements and achieve the objectives of Chapter 20.87¹. The C&D Recycling and Reuse Guidelines include:

- Data required to complete a Recycling and Reuse Plan (RRP);
- Method for estimating the tonnage of C&D debris that a project generates;
- Method for calculating the amount of refundable project deposit;
- Documentation required to complete a Final Compliance Report (FCR) in order to complete a project and receive any potential refund of the project deposit;
- Approval requirements for C&D debris facilities.

¹ Los Angeles County Code §20.87.120

Summary of Requirements for Recycling, Reusing, and Disposing of C&D Debris under Chapter 20.87.

1. At least seventy percent (70%) of project mixed C&D debris (not including soil or land clearing debris) must be recycled or reused². In addition, C&D debris that is not recycled or reused must be properly disposed³.
2. One hundred percent (100%) of land-clearing debris⁴. Examples include shrubs, trees, tree trunks and incidental soil, and rock, must be recycled or reused.
3. One hundred percent (100%) of project C&D debris consisting of soil debris must be properly managed through recycling or reuse, or, if the applicant demonstrates that it is not feasible to recycle or reuse some or all of the soil debris, it can be disposed in an Inert Debris Engineered Fill Operation (IDEFO). To the extent practicable, soil debris that is removed from a project site may not be commingled with other project C&D debris⁵.
4. One hundred percent (100%) of all universal waste must be properly managed⁶. Examples include thermostats that contain mercury, fluorescent bulbs, solar panels, and light ballast generated from the alteration and renovation of a nonresidential building or tenant space.
5. Debris that consist of universal waste are not considered to be "C&D Debris" that is required to be recycled or reused in accordance with the C&D Debris Recycling and Reuse Ordinance⁷, but the applicant must demonstrate that such material was properly handled and/or disposed⁸.

If Public Works determines that it is not feasible for an applicant to divert C&D debris from disposal at the above-stated rates for a specific project, Public Works may approve a lower recycling and reuse rate for that project⁹. For example, for a project generating a large tonnage of hard-to-recycle debris such as palm tree waste, Public Works may approve a lower recycling and reuse rate than the rate specified above to accommodate for hard-to-recycle debris.

² L.A.C.C. §20.87.040(A)(1)

³ L.A.C.C. §20.87.040(G)

⁴ L.A.C.C. §20.87.040(A)(2)

⁵ L.A.C.C. §20.87.040(B)

⁶ L.A.C.C. §20.87.040(D)

⁷ L.A.C.C. §20.87.030(DD)

⁸ L.A.C.C. §20.87.070(B)(5)

⁹ L.A.C.C. §20.87.040(F)(2)

APPLICABILITY

The recycling and reuse requirements of the Ordinance apply to the following types of projects¹⁰:

- Any work that requires a permit pursuant to the Los Angeles County Building Code, including construction, demolition, renovation, tenant improvement, and grading/excavation work.
- Any work that is within a County highway, publicly-owned flood control facility, or other public right of way that generates C&D debris, regardless of whether it requires a permit under the Building Code.

EXEMPTIONS

The following categories of projects are exempt from the requirements of the Ordinance, and therefore do not require submission of an RRP application:

- Projects that consist solely of granting a permit or certificate of conformance for an existing structure and do not involve any construction or demolition work¹¹.
- Projects that consist of the construction of the following and not involving the demolition or reconstruction of an existing structure¹²:
 - billboards
 - antennae
 - communication or transmission towers
 - modular buildings
 - mechanical equipment or machinery not including solar panels
 - pole mounted shade structures
- Construction or remodel of a structure(s) that is predominately vertical, such as a building, shed, or carport, with a combined area of less than four hundred (400) square feet¹³.
- Demolition of structures containing hazardous materials such as asbestos, lead-based paint or fire-damaged structures. Construction of replacement structures is not exempt.
- The project consists of work that is determined by Public Works to be necessary to protect public health or safety in direct response to an emergency or disaster proclaimed by the appropriate federal, state, or local official or governing body¹⁴.
- Projects that do not result in debris or soil being removed from the site such as grading projects or the construction of a retaining wall with no export of soil from the site.

¹⁰ L.A.C.C. §20.87.030(T)

¹¹ L.A.C.C. §20.87.040(E)(1)

¹² L.A.C.C. §20.87.040(E)(2)

¹³ L.A.C.C. §20.87.040(E)(3)

¹⁴ L.A.C.C. §20.87.040(E)(4)

ATTACHMENT

Attached are the C&D Recycling and Reuse Guidelines, setting forth the standards guidelines, requirements, and criteria established or adopted by the Director of Public Works that are reasonably necessary to implement the requirements, and achieve the objectives of Chapter 20.87. Accordingly, these Guidelines are meant to be iterative and may be updated as necessary from time to time.

ATTACHMENT A

Construction and Demolition Recycling and Reuse Guidelines

The purpose of the Construction and Demolition (C&D) Recycling and Reuse Guidelines (Guidelines) is to provide standards, guidelines, and criteria for compliance with the C&D Recycling and Reuse Ordinance, which is set forth in Chapter 20.87 of the Los Angeles County Code (Ordinance).

A. Submitting a Recycling and Reuse Plan (RRP)

Recycling and Reuse Plan (RRP) means a plan for recycling, reuse, and disposal of project C&D debris and universal waste in accordance with the requirements of the Ordinance¹⁵. The RRP estimates the debris tonnage generated by a project based on user inputs into the web-based platform on EpicLA.

A project applicant shall submit the RRP through EpicLA¹⁶ and submit the applicable Refundable Project Deposit (see Section C of these Guidelines)¹⁷. Instructions for how to submit are available at www.lacountyCND.com under Step 1. Before the Project.

At a minimum, the applicant shall provide the following information on the RRP application¹⁸:

1. How all of the C&D Debris that the project generates will be recycled, reused or disposed.
 - The RRP must state the name and location of every recycling facility, IDEFO, construction site, disposal facility, or other location to which the applicant plans to take C&D debris generated from the project.
 - Mixed C&D debris will be counted towards the seventy percent (70%) that is required to be recycled or reused if it is accepted at one of the following facilities or reused in the following ways:
 - Certified C&D debris recycling facility with a Facility-Average Recycling rate of at least seventy percent (70%).
 - Provisionally approved mixed C&D debris recycling facility (See Section H of these Guidelines). A current list of approved C&D recycling facilities, which will be considered to be provisionally approved for up to one year after the effective date of the Ordinance, is provided at the following link: https://pw.lacounty.gov/epd/CD/cd_attachments/Recycling_Facilities.pdf. If the average recycling rate of an approved C&D debris recycling facility is less than seventy percent (70%), in accordance with section I of these guidelines, then any C&D debris that the applicant takes to that facility will be considered

¹⁵ L.A.C.C. §20.87.030(Y)

¹⁶ https://epicla.lacounty.gov/energov_prod/SelfService/#/home

¹⁷ No RRP shall be required for projects that are exempt or where an open RRP is already on file. See L.A.C.C. §20.87.050(A)

¹⁸ L.A.C.C. §20.87.050

- to have been recycled at such lower rate and associated administrative penalties will be assessed.
- If mixed C&D debris is source-separated, each of the individual debris types may be recycled at facilities that recycle the respective types of debris such as a metal, inert debris, or, composting or conversion technology facility for recycling C&D debris consisting of organic material¹⁹.
 - Project C&D debris that is deconstructed²⁰ or otherwise preserved as usable building material may be reused either on-site at another construction project or delivered to a non-profit organization such as Habitat for Humanity; provided that the applicant submits reliable evidence, as determined by Public Works demonstrating that the material has been or will be reused.
 - Taken to a municipal solid waste (MSW) landfill, only if the applicant can provide satisfactory documentation to Public Works demonstrating that the material is not being disposed of, but that it is or will be beneficially reused.
 - A facility or site that is not a certified or approved facility, provide that the applicant submits reliable evidence, as determined by Public Works, that the facility or site will recycle or reuse the project C&D debris at a rate that complies with the requirements of §20.87.040.
 - Soil may be taken to any of the above facilities as appropriate, and to the following:
 - A permitted construction site that will be used exclusively for grading purposes.
 - An IDEFO for proper disposal if the soil debris cannot be feasibly recycled or reused.
 - A municipal solid waste (MSW) landfill, if the landfill operator provides the applicant with documentation satisfactory to Public Works demonstrating that the material is not being disposed of, but that it is or will be beneficially reused.
 - Land clearing debris may be reused on site (documentation required) or taken to the following:
 - Any Mixed C&D Debris Recycling facility that processes land clearing debris.
 - Organic Debris Processing Facility that accepts land clearing debris and that is permitted by the State.
 - Any other facility approved by Public Works that processes land clearing debris that is permitted by the State.
 - If a project generates hazardous material, or is comingled with hazardous materials that cannot feasibly be separated and therefore cannot be recycled, reused, such materials must be taken to an appropriate facility that accepts such hazardous material. These materials will not count towards the total of C&D debris that must be recycled or reused. Non-hazardous materials that can be feasibly separated must be recycled, reused, or disposed of in accordance with the relevant standards applied to that type of material.²¹
 - The RRP must identify the type and quantity of universal waste debris that the applicant intends to take to each respective facility/handler. Universal waste will not count toward the total C&D Debris that must be recycled or reused.
 - The RRP must account for all C&D debris that will be generated from the project, including material that will be recycled, reused, disposed in an IDEFO, or disposed

¹⁹ L.A.C.C. §20.87.040(C)(2)

²⁰ L.A.C.C. §20.87.030(H)

²¹ L.A.C.C. §20.87.040(F)

of in a municipal solid waste landfill that is not an IDEFO, and identify the facility where it will be recycled, reused, or disposed.

- The RRP must indicate how the applicant intends to transport all such C&D debris. List the name of each hauler that will be used (List of Commercial Franchise Haulers authorized to collect C&D Debris: <https://pw.lacounty.gov/epd/swims/TrashCollection/docs/AuthorizedCommercialWasteHaulers.pdf>).

2. Public Works will review the RRP application and verify that:

- The applicant acknowledges that the applicant is subject to the requirements of the Ordinance and understands that some or all of the refundable project deposit will be forfeited if the applicant does not comply with the requirements of the Ordinance.
- The project square footage of work and/or volume of soil excavation is consistent with the project plans.
 - A tonnage estimate of C&D debris will be calculated with the formula set forth in the RRP application based on the inputted square footage of work and anticipated volume of soil excavation.
- The applicant has paid the applicable refundable project deposit, calculated pursuant to the methods set forth in section C of these Guidelines²².
 - Payment can be made to Public Works in the following manner:
 - Online via the EpicLA system at:
<https://epicla.lacounty.gov/SelfService/#/home>
 - Via Cash or Check submitted in person to the cashier at:
Los Angeles County Public Works Headquarters
Cashier's Office, Main Building
900 South Fremont Avenue, Mezzanine Level
Alhambra, A 91803
 - Cash or Check payments can also be mailed to:
Los Angeles County Public Works
Cashier Office
PO Box 14601
Alhambra ,CA 91802-1460
 - Checks should be made payable to the County of Los Angeles.
- RRP applications will be checked for completeness regarding the required information.

3. If Public Works determines that it is not reasonably feasible for an applicant to divert C&D debris from disposal at the rates specified in the Ordinance for a specific project, Public Works may approve a lower recycling and reuse rate for that project²³.

4. Once Public Works determines the RRP is complete and all applicable deposits are paid, Public Works will provide a copy of the approved RRP to the applicant. The applicant is responsible for providing a copy of the approved RRP to the Public Works

²² L.A.C.C. §20.87.060(A)(3)

²³ L.A.C.C. §20.87.040(F)(2)

Building and Safety Division, and/or any other agencies that request such document for permit clearance.

Amending the RRP

If an applicant who has submitted an RRP subsequently learned that information contained in the RRP is incorrect or has such changes as:

- scope changes that affect the square footage
- changes in recycling facility
- changes in excavation volumes
- changes in proposed recycling

the applicant is required to notify Public Works and submit an Amendment form (**Appendix 3**) to Public Works. Amendments must be approved prior to submitting the FCR.

Any amendment that increases the estimated C&D debris that the project will generate will require an additional Refundable Project Deposit prior to approval of the amendment.

B. Estimating the Tonnage of C&D Debris that a Project Generates

The quantity of project C&D debris to be recycled shall be determined by weight²⁴. Project C&D debris that cannot feasibly be weighed and that is measured and reported based on volume shall be converted to a weight-based unit of measurement using County-approved Volumetric-to-Weight conversion tables (see **Appendix 1**).

The estimated weight of project C&D debris shall be automatically calculated through EpicLA by manually entering the square footage of the project area which will be multiplied by a debris generation factor derived from the 2003 report from the U.S. Environmental Protection Agency²⁵. The debris factors can be found in the table in **Appendix 1**. The factors may be adjusted on a case-by-case basis depending on the project scope to obtain more accurate estimates. The applicant must provide documentation to support any proposed adjustment to the calculations.

The Recycling and Reuse Plan must include the estimated project C&D debris broken down as follows:

- Estimated weight for soil debris
- Estimated weight for inert debris
- Estimated weight for land clearing debris
- Estimated weight for all other remaining project C&D debris (i.e., mixed C&D debris other than inert debris)
- Combined estimated total weight of all project C&D debris

²⁴ L.A.C.C. §20.87.040(A)(1); ²⁴ L.A.C.C. §20.87.050(B)(3)

²⁵ Estimating 2003 Building-Related Construction and Demolition Materials Amounts, <https://www.epa.gov/smm/estimating-2003-building-related-construction-and-demolition-materials-amounts>

C. Calculating the Refundable Project Deposit

Deposit Schedule²⁶

Estimated tonnage	Deposit amount
up to 1 ton	\$ 500.00 (Fixed deposit)
>1 ton, up to 15 tons	\$ 60.00 per ton
>15 tons, up to 45 tons	\$ 45.00 per ton
>45 tons	\$ 30.00 per ton
\$100,000 max deposit amount	

Unless a project is exempt from paying the refundable project deposit²⁷, the deposit is calculated on the tonnage of C&D debris that a project is expected to generate as follows:

- \$500 for the 1st ton or portion thereof
- \$60 per ton for each additional ton, starting with the 2nd ton up to the 15th ton
- \$45 per ton for each additional ton, starting with the 16th ton up to the 45th ton
- \$30 per ton for any remaining C&D debris above the 45th ton

Example Calculation:

This example shows the calculation for estimating the tonnage of C&D debris that a project will generate, and then calculating the refundable deposit amount. Assuming an applicant is converting an existing 450 square foot garage to an Accessory Dwelling Unit (ADU) and removing a 974 square foot driveway.

First the estimated project tonnage is calculated as shown below:
 450 square foot garage x .0117 tons/square foot (using the conversion table in **Appendix 2**) = 5.26 tons
 974 square foot x .01 tons/square foot (using the conversion table in **Appendix 2**) = 9.74 tons
 Total project estimated tons = 5.26 tons + 9.74 tons = 15 tons

Next, using the deposit schedule above for 15 tons, the refundable deposit amount can be calculated as shown in the table below:

Estimated tonnage	Deposit amount	Deposit amount
Zero up to 1 ton	\$ 500.00 (fixed)	\$500.00
>1 ton, up to 15 tons	\$60.00x 14 tons	\$840.00
>15 tons, up to 45 tons	\$45.00 x 0 Tons	\$0.00
>45 tons	\$30.00 x 0 Tons	\$0.00
		Total: \$1,340

²⁶ L.A.C.C. §20.87.085
²⁷ L.A.C.C. §20.87.085(A): exempting County and Special District Projects

D. Completing a Final Compliance Report (FCR) and Refund of Refundable Project Deposit

Upon the completion of the project, or within one (1) year after, the applicant must submit an FCR²⁸. The FCR must be submitted with receipts, weight tickets, or other evidence to document the tonnage of project C&D debris the applicant recycled, reused, or disposed, in accordance with the approved RPP and the Ordinance²⁹. Instructions for how to submit are available at www.lacountyCND.com under Step 3. After the Project.

The FCR must include the total project C&D debris generated, recycled or reused, or disposed of, broken down as follows:

- Tons of all soil debris generated;
- Tons of all inert debris generated;
- Tons of all land clearing debris generated;
- Tons of all other project C&D debris generated (i.e., mixed C&D debris other than inert debris);
- Combined total tons of all project C&D debris that the project generated,
- Tons of all soil debris recycled or reused;
- Tons of all inert debris recycled or reused;
- Tons of all land clearing debris recycled or reused;
- Tons for all other project C&D debris recycled or reused (i.e., mixed debris other than inert debris);
- Combined total tons of all project C&D debris that the project recycled or reused;
- The tons of soil debris that was disposed of in an IDEFO; and
- The tons of project C&D debris, other than soil debris, that was disposed of.

If the tonnage of any C&D debris was measured in volume rather than weight, then the volume must be converted to weight using the conversion values set forth in the table in **Appendix 1**.

Along with the FCR, the applicant must:

- Submit copies of receipts from every facility that collected, transported, or received any project C&D debris. Each receipt must specify the weight or volume of any project C&D debris handled or received by the facility and must clearly demonstrate that all such C&D debris originated from the project site³⁰.
 - If there are more than 10 weight tickets, a summary page must also be submitted that tabulates the ticket number, facility name, material type, tonnage, and date of each ticket. The summary page can be submitted as an Excel file or PDF. A sample summary page is provided in **Appendix 4**.
- Submit any other documentation such as pictures, plans, and/or amendments, that substantiate how C&D debris was managed in compliance with the approved RPP.

²⁸ L.A.C.C. §20.87.070(B)

²⁹ L.A.C.C. §20.87.070(B)(6)

³⁰ L.A.C.C. §20.87.070(B)(6)

- Certify, under penalty of perjury, that the information contained in the FCR is correct to the best of the applicant's knowledge³¹.

After the applicant submits the FCR, Public Works will review and determine whether the applicant properly recycled, reused and/or disposed of all C&D debris and other material in accordance with the approved RRP and the Ordinance.

E. Administrative Penalty

If Public Works determines that the FCR is incomplete or is missing documentation that the applicant is required to provide to demonstrate compliance with the approved RRP for the project or the Ordinance, Public Works will notify the applicant and the owner, if different from the applicant, of the pending assessment of the administrative penalty. Such notice will include the amount of the pending administrative penalty and provide the applicant with the opportunity to correct any deficiencies within the timeframe specified by Public Works in the notice.

- Such notice will be in the form of a statement of noncompliance and shall be served upon the applicant and the owner, if different from the applicant, by electronic mail, personal delivery, or registered or certified mail, return receipt requested, at the Director's election. In the event, after reasonable effort, the Director is unable to serve the notice of noncompliance as set above, service shall be accomplished by posting a copy of the notice on the premises of the project. The date of service is deemed to be the date of mailing, electronic mailing, personal delivery, or posting, as applicable³².

If the applicant or owner fails to address any deficiencies identified within the timeframe specified by Public Works, Public Works will evaluate whether all the project C&D debris and universal waste included in the RRP were appropriately recycled, reused, and/or disposed based on the FCR submittal. This deficiency correction period shall last no longer than one year from the date of the initial notice, including any additional time granted by Public Works for addressing such deficiencies.

Alternatively, if the provided documentation demonstrates any improper recycling, reuse, and/or disposal of the project's C&D debris and universal waste, Public Works will assess the appropriate penalty, to be deducted from the refundable project deposit, based on the penalty schedule provided below:

Administrative Penalty Schedule³³

Tons of C&D not recycled and not reported	Administrative Penalty Amount
Zero up to 1 ton	\$ 100.00
>1 ton, up to 15 tons	\$ 60.00 per ton
>15 tons, up to 45 tons	\$ 45.00 per ton
>45 tons	\$ 30.00 per ton

³¹ L.A.C.C. §20.87.070(B)(7)

³² L.A.C.C. §20.87.090(C)

³³ L.A.C.C. §20.87.090(A)(1)

Within sixty (60) days of the submittal of the FCR that Public Works determines to be complete, the County will refund the deposit less the amount of any penalty imposed for noncompliance of the requirements of the Ordinance in accordance with Section 20.87.090 of the Los Angeles County Code, calculated as follows:

- \$100 fixed base amount for C&D debris not properly recycled, reused, or disposed in accordance with the requirements of the Ordinance or these Guidelines, up to the 1st ton (unless the project is exempted); plus
- \$60 per ton for each additional ton of C&D debris not properly recycled, reused or disposed of, starting with the 2nd ton up to the 15th ton; plus \$45 per ton for each additional ton of C&D debris not recycled or reused starting with the 16th ton up to the 45th ton; plus
- \$30 per ton for any remaining C&D debris above the 45th ton not recycled or reused.
- Other violations: the Director may impose an administrative penalty for each violation in an amount not to exceed one hundred dollars (\$100) for the first violation, two hundred dollars (\$200) for the second violation within one (1) year after the first violation, and five hundred dollars (\$500) for each additional violation. Other violations include failure to properly handle or dispose of universal waste³⁴.

Example Calculation:

A contractor's approved RRP shows 15 tons of C&D debris (not including soil or land-clearing debris) would be generated, resulting in a refundable project deposit amount of \$1,340 (see previous example).

Seventy percent (70%) of the estimated weight must be recycled or reused. Seventy percent (70%) of 15 tons amounts to 10.5 tons. The contractor submits an FCR with weight tickets from a County approved C&D recycling facility indicating 5.5 tons received. The facility has a certified facility average recycling rate of seventy-five percent (75%). The penalty will be calculated as follows:

5.5 tons of debris recycled at seventy-five percent (75%). Total recycled: 3.85 tons out of the required 10.5 tons. Total not recycled: 6.65 tons

Total tonnage noncompliant: 6.65 tons

The Administrative Penalty is assessed as follows:

³⁴ L.A.C.C. §20.87.090(A)(2)

Tonnage Recycled/Reused or Substantiated	Not or not	Administrative Formula	Penalty	Administrative Amount	Penalty
Zero up to 1 ton		\$ 100.00 (fixed)		\$100.00	
>1 ton, up to 15 tons		\$60.00 x 5.65 tons		\$339.00	
>15 tons, up to 45 tons		\$45.00 x 0 Tons		\$0.00	
>45 tons		\$30.00 x 0 Tons		\$0.00	
				Total: \$439.00	

The Administrative Penalty amount will be deducted from the refundable project deposit. The amount that will be refunded to the applicant will be \$1,340 minus the Administrative Penalty amount of \$439, resulting in \$901 being refunded to the applicant.

If the administrative penalty exceeds the amount of the refundable project deposit paid, the applicant shall be responsible for paying the difference³⁵.

F. Administrative Review of Statement of Noncompliance

Per 20.87.100, upon issuance of a statement of noncompliance, the applicant may request an administrative review by filing a written notice of appeal with the Director of Public Works no later than 30 days after the date of issuance of the statement of noncompliance. The notice of appeal must include all facts supporting the appeal and any statements and evidence, including copies of all written documentation and a list of any witnesses, that the appellant wishes to be considered in connection with the appeal.

Such appeal will be heard by a designated hearing officer and best efforts will be exercised to conduct the appeal within 45 days of filing of the notice of appeal. Applicants shall be given 10 days prior written notice of any scheduled hearing.

G. Evidence of Compliance with the RRP Requirements When a Project is Cancelled Prior to Completion

If a project has been canceled and the project permit has been revoked within the first year after issuance for the project, then the applicant must notify PW by email to CND@dpw.lacounty.gov. At such time the RRP will be invalidated, and the applicant can request a refund of the project deposit in their email.

If an applicant completed a portion of the construction prior to being canceled, the applicant must submit an amendment in accordance with *Section B* of these guidelines and submit an FCR for the portion of the project completed prior to requesting a refund of the project deposit.

H. Approval Requirements for Construction and Demolition (C&D) Debris Facilities

Public Works maintains an approved facilities list including provisionally approved C&D Debris Recycling Facilities that can receive mixed C&D debris in compliance with the

³⁵ L.A.C.C. §20.87.090(B)

updated C&D Ordinance³⁶. This list can be found under "Reference Materials" on www.lacountyCND.com.

Mixed C&D Debris Recycling Facility³⁷

A Mixed C&D facility typically:

- Accepts a mixture of mixed C&D debris such as wood, drywall, roofing materials, metals, glass, etc.
- May accept soil debris, inert debris, and/or land clearing debris to the extent that it is permitted to process and recycle such material.

Mixed C&D debris recycling facilities must submit certification from a third-party evaluator to be placed on the list of approved C&D facilities. Facilities that are currently on the list as of the effective date will automatically be *provisionally* approved. Provisional facilities must obtain certification of their Facility-Average Recycling Rate with a third-party evaluator within one year of the date of notification.

Upon completion of third-party certification of its Facility-Average Recycling Rate, the facility will be eligible for placement on Public Works' list of certified C&D facilities. To remain on the Public Works list of certified C&D debris recycling facilities, such facilities must get re-certified annually. The proof of certification shall be emailed to the Public Works at CND@dpw.lacounty.gov.

In order to be eligible for placement on Public Works' list of certified C&D facilities, a Mixed C&D debris recycling facility shall submit the following information for review to the Public Works Construction and Demolition email at CND@pw.lacounty.gov.

- Certification documentation from a qualified third-party organization demonstrating its Facility-Average Recycling Rate.
- Provide access to and/or submit supporting documentation used by the third-party organization to substantiate the recycling rate and achieve certification.
- List of debris/categories accepted at the facility and a brief description explaining how each debris/category is processed at the facility.
- Notwithstanding the requirements above, the Director may allow a facility to be classified as a provisionally approved C&D debris recycling facility upon submission of the certification documents.
- Facilities must re-certify the Facility-Average Recycling rate and re-submit the certification documents to PW at CND@pw.lacounty.gov annually by October 1.

Inert Debris Only Recycling Facility

An Inert debris recycling facility typically crushes asphalt and/or concrete for sale as crushed miscellaneous base or other products.

³⁶ L.A.C.C. §20.87.045(F)

³⁷ L.A.C.C. §20.87.030(Q)

Facilities that recycle inert debris only are eligible to be on Public Works' list of approved recycling facilities if they have obtained all required permits and are in good standing with State and local enforcement agencies.

In order to be approved by Public Works, an inert debris recycling facility shall submit copies of the appropriate permits, or equivalent, issued by the responsible agency, verifying the type of facility to PW at CND@pw.lacounty.gov.

Land Clearing Debris Only Recycling Facility

Facilities recycling land clearing debris only are eligible to be on the Public Works list of approved facilities if they have obtained all required permits and are in good standing with State and local enforcement agencies.

A land clearing debris recycling facility typically processes green waste and waste from clearing and grubbing activities.

In order to be approved by Public Works, a land clearing debris recycling facility shall submit the appropriate permits, or equivalent, issued by the appropriate agency, verifying the type of facility to PW at CND@pw.lacounty.gov. Examples of permits include the following:

- Local Land Use, Planning Department permit (only to verify the activity identified on the permit is consistent with the proposed recycling activity and if there is any restriction on the land use permit).
- CalRecycle permit if applicable.

Inert Debris Engineered Fill Operation (IDEFO)³⁸

An Inert Debris Engineered Fill Operation (IDEFO) is eligible to accept soil debris if it has obtained the local land use approval and/or Enforcement Agency Notification.

Inert debris, other than soil, that is placed in an IDEFO will not count toward the seventy percent (70%) recycle and reuse rate.

Other C&D Debris Recycling Facility³⁹

Public Works has discretion to approve other types of facilities in cases where the applicant demonstrates that the C&D debris recycling facility will recycle the project C&D debris at a rate that complies with the Ordinance and has all required permits and approvals.

³⁸ L.A.C.C. §20.87.030(M)

³⁹

I. Third-Party Certification Requirements

In order for Public Works to approve mixed C&D debris facility's Facility-Average Recycling Rates for mixed C&D debris, such facility needs to secure third-party certification which shall adhere to the following requirements:

- Facility-Average Recycling Rate shall be determined using total tons in and total tons out for a twelve-month period, or a frequency approved by Public Works.
- Facility recycling rates shall be provided with and without Alternate Daily Cover/Beneficial Reuse.
- The data used to determine the Facility-Average Recycling Rate must include a breakdown of materials (by type and by weight), including analysis of supporting data relating to tonnage and types of materials received and processed at the facility.
- Verification of the data must include, at a minimum: the evaluation of recyclables sales records, verification of facility sales into commodity markets, monitoring of off-site movement of materials, and a review of a sample of customer's weight tickets.
- The third-party evaluator shall conduct an on-site visit of the facility for the first-year certification, with subsequent site visits occurring annually unless additional visits are deemed necessary by the certification evaluator. The site visit will include:
 - Examination of how materials enter, are measured, deposited, processed/sorted, and exit the facility;
 - Interviews with key personnel;
 - Confirmation of equipment types and capacity;
 - Observation and verification of load/materials sorting and accuracy; and
 - Verification of the use and accuracy of scales including calibration frequency.

Appendix 1

Volume to Weight Conversion Factors

This table should be used as a tool when material cannot feasibly be weighed.

Note: 1 ton = 2,000 lbs

Conversion Table

Material Type	Pounds per cubic yard
Asphalt/Paving, Crushed	1,380
Brick, Common Hard	3,199.5
Brick, Whole	3,024
Cardboard, Paper	100
Ceramic Tile, loose 6" x 6"	1,214
Concrete, Scrap, Loose	1,855
Glass	2,160
Gypsum, Drywall	3,834
Metals	906
Plastic	22.55
Soil, Dry	2,025
Soil, Wet	2,106
Stone or Gravel	2,632.5
Rock, Loose	2,570
Metal Scrap	906
Wood Scrap, Loose	329.5

Conversion factors are those used by CalRecycle.

EXAMPLE

A 30 cubic yard bin full of loose scrap should weigh 9,885 pounds (30cy x 329.5lbs/cy), which is equivalent to 4.94 tons (since 1 ton = 2,000lbs).

Appendix 2

Debris Generation Estimation Factors for a project

This table is used to estimate how much C&D debris will be generated by a project based on the dimensions of a project scope.

Conversion Table

Project Scope	Demolition – Estimated tons of debris generated per square foot	Construction – Estimated tons of debris generated per square foot
Residential - House (SFR, ADU, addition, etc.)	0.0635	0.002
Residential - Garage/Carport	0.035	0.001
Residential - Patio/Gazebo	0.0015	-
Residential - Storage shed	0.0045	-
Non-Residential - Wood Frame/Metal Structure	0.08	0.002
Non-Residential Concrete/Masonry Structure	0.1	0.002
Driveway/Parking lot/Walkway	0.01	-
Renovation/remodel/conversion/ legalization	-	0.0117
Tenant Improvement	-	0.0056

If only walls are to be removed, then the following factors will be used to estimate how much debris will be generated.

Type of wall to be removed	Debris generation rate
Interior wall (dry wall, etc.)	0.006 tons per linear foot
Exterior wall (stucco, etc.)	0.005 tons per linear foot
Block/cinder wall (retaining walls, etc.)	0.029 tons per cubic foot

Grading/Excavation Activity

Soil tonnages are calculated separately at an estimated generation rate of 1.35 tons per cubic yard unless more details about the project are presented.

Conversion factors are based on a 2003 report by U.S. Environmental Protection Agency titled "Estimating 2003 Building-Related Construction and Demolition Materials Amounts." For more information about this report, please visit <https://www.epa.gov/smm/estimating-2003-building-related-construction-and-demolition-materials-amounts>.

Appendix 3

Construction and Demolition Debris Forms

1. Amendment Form

Appendix 4

Summary Page of FCR Weight Tickets Example

Any FCR submittal with 10 or more weight tickets will be required to submit a summary page that tabulates the ticket number, facility name, material type, tonnage, and date of each ticket. The summary page can be submitted as an Excel file or PDF.

Example Weight Ticket Table

Assigned Number	Facility	Ticket Number	Material	Date	Weight (Tons)/Loads
1	Crown Recycling Services	760568	C&D	5/25/2020	4.85
2	Peck Road Gravel	225283	Clean Concrete	-	18.00 or 1 load
3	Downtown Diversion	139536	Inert Mixed C&D	2/24/2019	12.67
Total Weight=					35.52

Weight Ticket File(s)

1

SYSTEM GENERATED
 Ticket# 760568
 Operator ARALFRED04
 Cust# [REDACTED]
 REPUBLIC SERVICES
 ANAHEIM CA 92806
 Comment:

CROWN RECYCLING SERVICES
 ATHENS SERVICES
 SUN VALLEY CA 91352
 Vehicle ID: [REDACTED]
 Vehicle Lic#: [REDACTED]
 Origin: LC

Date: 5/25/20
 In Time: 3:55 PM
 Out Time: 4:09 PM
 Inbound Load

REPUBLIC SERVICES

Material	Gross Wgt	Tare Wgt	Net Wgt	Qty	Amount
C&D	1 43660 LB	3 33960 LB	9700 LB	4.85 TN	
Total-				4.85 TN	

164744

PECK ROAD GRAVEL
 dba SLS & N, INC.
 128 E. LIVE OAK AVE., & PECK ROAD
 P.O. BOX 1286 • MONROVIA, CALIFORNIA 91017
 OFFICE: 626.574.1855

**INERT DEBRIS RECYCLING
 &
 INERT DEBRIS ENGINEERED
 FILL OPERATION (IDEFO)**

TICKET #
 225283

2

DRIVER / CARRIER		ADDITIONAL INFO					LOADS
BY:							1
CUSTOMER	AMERICAN INTEGRATED RES						TONS
TRUCK #	[REDACTED]						18.00
VEH. TYPE	SUPER TEN						
MATERIAL TYPE	22.3 CLEAN CONCRETE / MIX						
DATE	[REDACTED]	JOB #	CUSTOMER #	ORDER #	P.O.#	RECYCLE	IDEFO
TIME	[REDACTED]		AIR	[REDACTED]		XXXX	
CITY	[REDACTED]	ADDRESS			[REDACTED]		
COUNTY	LAC						DEBTOR AGREES TO PAY LEGAL FEES FOR COLLECTION OF DELINQUENT ACCOUNTS
FEE \$	350.00						
PECK ROAD GRAVEL				128 E. Live Oak Ave., & Peck Road, Monrovia, CA 91017			

WM
 WASTE MANAGEMENT

3

EAST VALLEY DIVERSION/DOWNTOWN DIVERSION
 11616 SHELDON ST
 SUN VALLEY, CA, 91352 Original Ticket# 139536
 Ph: (610) 252-0819

Customer Name REPUBLICSERVICESUNVALLEY REP Carrier REPUBLIC SERVICES
 Ticket Date 12/24/2019 Vehicle# 4488282 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# [REDACTED]
 Project/Class Job/Crew
 PO#

Time	Scale	Operator	Inbound	Gross	5600 lb
In 12/24/2019 10:43:04	Scale2_Small_ ft			Tare	3100 lb
Out 12/24/2019 10:50:34	Scale1_big_Sc ft			Net	2530 lb
				Tare	12.67

Commodity	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	104 Inert Mixed CAD	100	12.67	Tons	71.51		906.63	LCRE

The "Assigned Number" column correlates each row to a corresponding weight ticket with that assigned number. All other column's information can be found on each weight ticket.

Note: The above formatting requirement is not a "complete" FCR submittal. As written in Section D, Instructions for how to submit a complete FCR are available at www.lacountyCND.com under Step 3. After the Project.