

MARIN COUNTY HAZARDOUS & SOLID WASTE  
MANAGEMENT JOINT POWERS AUTHORITY

AB 939 LOCAL TASK FORCE

Wednesday, October 7, 2015

1600 Los Gatos, Suite 211  
San Rafael, CA  
8:30 – 10:00 AM

AGENDA

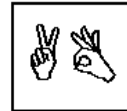
Call to Order.

- 1) Open Time for Public Comment
- 2) Approval of the June 3, 2015 JPA Local Task Force Minutes (Action)
- 3) Updates from LTF Subcommittees (Information)
- 4) Update on School Zero Waste Outreach (Information)
- 5) Construction and Demolition Debris Final Report (Action)
- 6) Open Time for Member Comments (Information)

The next scheduled JPA Board Meeting is October 22, at 9:00 AM.  
The next scheduled LTF Meeting is December 2, 2015 at 8:30 AM.

The full agenda including staff reports can be viewed at:  
<http://zerowastemarin.org/Agenda>

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Contact the County's Waste Management Division, at 473-6647 for more information

**2**  
**DRAFT**

**MARIN COUNTY HAZARDOUS & SOLID WASTE  
MANAGEMENT JOINT POWERS AUTHORITY**

AB 939 Local Task Force Meeting  
Wednesday June 3, 2015  
1600 Los Gatos Dr, Suite 211  
San Rafael, Calif. 94903

Minutes

**MEMBERS PRESENT**

Loretta Figueroa, Almonte Sanitary District  
Delyn Kies, Sustainable Novato  
Renee Goddard, Ross Valley Cities  
Jennie Pardi, Nature Bridge Golden Gate  
Joan Irwin, Southern Marin Cities  
Ramin Khany, Redwood Landfill  
Dee Johnson, Novato Sanitary District  
Russ Greenfield, LGVSD  
Steve McCaffrey, Redwood Empire Disposal  
Adrian Bartshire, San Rafael  
David Haskell, Sierra Club

**STAFF PRESENT**

Steve Devine, JPA Staff  
Alex Soulard, JPA Staff  
Casey Poldino, JPA Staff

**OTHERS PRESENT**

Kim Scheibly, Marin Sanitary Service  
Eli Goodsell, Conservation Corps  
Jim Iavarone, Mill Valley Refuse Svc.  
Garth Schultz, R3 Consulting  
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**MEMBERS ABSENT**

Patty Garbarino, Marin Sanitary Service  
David Green, Unincorporated Marin County  
Matt McCarron, Novato

Call to Order. The Local Task Force (LTF) Meeting came to order at 8:36AM

1. Open Time for Public Comment

No public comments were heard.

2. Approval of the April 1, 2015 JPA Local Task Force Minutes

Member Irwin noted one amendment to the April 1, 2015 LTF Minutes. M/s Figueroa, Greenfield to approve the April 1, 2015 Local Task Force minutes as amended. The motion passed unanimously.

3. Updates from LTF Subcommittees

LTF Members provided updates on the progress made by the Subcommittees since the last meeting noting meeting dates and issues discussed.

C&D/Asphalt Shingles Subcommittee (Member: Khany, Greenfield, Kies. Public: Mazzoni, McLaren, Scheibly): Having met (date unspecified). During the meeting, members discussed the Draft C&D Report. Members were encouraged to provide comments when the C&D Report is discussed in Agenda Item 5. Future meeting dates were not identified. No action was necessary.

EPR, Sharps & Pharmaceuticals Subcommittee (Members: Garbarino, Johnson, Goddard, Green. Public: Scheibly): Having not met. Some members noted attending RxSafe Marin

meetings. Member Johnson noted Kaiser has removed its pharmaceutical's collection containers from their facilities supplied to them last month. However Staff noted some of those containers have been placed other community sites. Member Johnson also noted the US Supreme Court declined to hear the appeal filed against Alameda County, which then leaves Alameda's Ordinance in effect. Future meeting dates were not identified. No action was necessary.

Zero Waste Subcommittee (Members: Pardi, Goddard, Public: Scheibly): The Zero Waste Outreach Subcommittee met May 6<sup>th</sup>, 2015 for their initial meeting. The meeting included Jennie Pardi, Kim Sheibly (for Patty Garbarino), Cassidy Wallerstein of the Conservation Corps North Bay, and JPA staff Casey Poldino. Topics discussed included effective ways to communicate with the public on our zero waste goal and best practices for special events and schools. Members encouraged utilization of the website as a more robust resource and creating a special events guide for event planners.

No recent meetings of the JPA Board Zero Waste Outreach Subcommittee (LTF Chair, LTF Vice-Chair, and JPA Chair Mackle) were identified.

#### 4. LTF Procedures

Staff summarized the Procedures drafted by the LTF and approved by the JPA Board. Staff fielded questions and requested input from Members regarding changes to the Procedures and Legislative Platform previously adopted by the LTF. Staff indicated the documents will be distributed to Members for review. Members will then submit changes to Staff who will then collect the recommendations and compile them for the August LTF meeting. No action was necessary. No public comment was submitted.

#### 5. Construction and Demolition Debris Final Report

Staff summarized the RFP process for selecting JPA contractor R3 Consulting who executed C&D facility certifications and worked with Marin municipalities in evaluating successful C&D Ordinances. Staff outlined the efforts made by R3 to meet with the LTF C&D Subcommittee, the Code Advisory Board, facilities, cities and towns. R3 provided a presentation on the efforts made leading up to and summary of a draft report focusing on how to allocate ADC and how agencies enforce the ordinance. R3 Staff fielded questions from Members. Member Kies voiced her opposition to using ADC as diversion, but was open to it if the required diversion rates were increased. Members indicated they were unprepared to make a recommendation to the JPA Board at this time but noted the C&D Subcommittee will meet prior to the August LTF meeting to discuss the matter further. No public comments were submitted.

#### 6. JPA Executive Committee and Full JPA Board Meeting Schedule

Staff provided the JPA Board and Executive Committee meeting schedules and encouraged LTF members to attend. No action was necessary. No public comments were submitted.

#### 7. Open Time for Member Comments

LTF Members shared various community updates. No action was necessary.

# MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

**Belvedere:**

Mary Neilan

Date: October 7, 2015

**Corte Madera:**

David Bracken

To: Local Task Force Members

**County of Marin:**

Matthew Hymel

From: Steve Devine, Program Manager

*Steve Devine*

Re: Updates from LTF Subcommittees

**Fairfax:**

Garret Toy

Subcommittees include:

**Larkspur:**

Dan Schwarz

- Extended Producer Responsibility (Sharps & Pharma) Subcommittee
- Construction & Demolition/Asphalt Shingle Subcommittee
- Zero Waste Subcommittee

**Mill Valley:**

Jim McCann

Members will report on progress they have made researching and addressing issues at each LTF Meeting.

**Novato:**

Michael Frank

**Ross:**

Joe Chinn

**Recommendation**

Receive oral reports from Subcommittee members.

**San Anselmo:**

Debbie Stutsman

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**San Rafael:**

Nancy Mackle

**Sausalito:**

Adam Politzer

**Tiburon:**

Margaret Curran

# MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

**Belvedere:**  
Mary Neilan

Date: October 7, 2015

**Corte Madera:**  
David Bracken

To: Local Task Force Members

From: Steve Devine, Program Manager

*Steve Devine*

**County of Marin:**  
Matthew Hymel

Re: Update on School Zero Waste Outreach

**Fairfax:**  
Garret Toy

Casey Poldino will give an update on recent and ongoing school outreach efforts.

**Larkspur:**  
Dan Schwarz

**Recommendation**

Receive oral report from staff.

**Mill Valley:**  
Jim McCann

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**Novato:**  
Michael Frank

**Ross:**  
Joe Chinn

**San Anselmo:**  
Debbie Stutsman

**San Rafael:**  
Nancy Mackle

**Sausalito:**  
Adam Politzer

**Tiburon:**  
Margaret Curran

# MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Date: October 7, 2015

**Belvedere:**  
Mary Neilan

To: Local Task Force Members

**Corte Madera:**  
David Bracken

From: Steve Devine, Program Manager

*Steve Devine*

**County of Marin:**  
Matthew Hymel

Re: Construction and Demolition Debris Final Report

**Fairfax:**  
Garret Toy

In FY 14/15 the JPA hired R3 Consulting Group for a Construction and Demolition Implementation project. This project's aim was to develop outreach for building counters, to conduct facility certifications and work with the Cities and Towns to ensure ordinances are implemented effectively.

**Larkspur:**  
Dan Schwarz

R3 Consulting Group met with representatives from all member agencies, including many building officials, and visited processing facilities to conduct certifications. Garth Schultz from R3 also met with the Code Advisory Board and multiple times with the LTF's Construction and Demolition Subcommittee to solicit feedback on the current programs and the contents of the draft report.

**Mill Valley:**  
Jim McCann

**Novato:**  
Michael Frank

The first draft of the report recommended changes to the model ordinance in the sections regarding facility diversion thresholds and how non-green waste Alternative Daily Cover is counted. After consulting with the C&D Subcommittee the report was brought to your Local Task Force for consideration at the June 3, 2015 meeting. Due to a lack of consensus on the diversion threshold the LTF recommended having another C&D Subcommittee to further discuss the issue.

**Ross:**  
Joe Chinn

**San Anselmo:**  
Debbie Stutsman

**San Rafael:**  
Jim Schutz

On September 9, 2015 the C&D Subcommittee met again. The main topic of discussion was the diversion threshold and if there was a need for cities/towns to adopt a full ordinance or just adopt the CalGreen standards. Although consensus was not reached in that meeting, the group agreed to submit comments on the draft report documents to staff by September 23, 2015.

**Sausalito:**  
Adam Politzer

**Tiburon:**  
Margaret Curran

After receiving comments on the documents the recommendation in the report has been changed to certify facilities to CalGreen Standards and recommend that Cities and Towns apply CalGreen to all building projects. The JPA can provide standardized outreach and reporting forms and work with City/Town staff to improve implementation to streamline the processes and maximize diversion.

## **Recommendation**

Adopt a motion recommending:

- 1) The JPA Board certify Construction and Demolition Facilities to CalGreen Standards.
- 2) The JPA Board encourage Cities/Towns to apply CalGreen to all projects that require a building permit.
- 3) The JPA assist Cities/Towns with C&D education, enforcement, and administration moving forward by providing outreach and standardized forms.

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CONSULTING GROUP, INC.

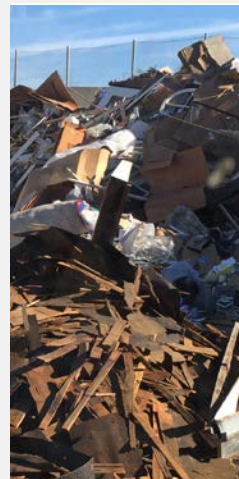
RESOURCES. RESPECT. RESPONSIBILITY.

**FINAL REPORT FOR:**

**Construction and Demolition Recycling Certification  
and Member Agency Outreach**



**ZERO  
WASTE  
MARIN**



**SUBMITTED TO:**

**Marin County Hazardous and Solid Waste  
Management Joint Powers Authority (Zero  
Waste Marin)**

September 29, 2015





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B	Photographs from Certification Site Visits
C	List of Certified Facilities and Sample Form
D	Member Agency Contact List

R3

## Section 1

Executive  
Summary

## Executive Summary

R3 Consulting Group, Inc. (R3) was engaged by the Marin County Hazardous and Solid Waste Management Joint Powers Authority (Zero Waste Marin) to conduct certification of construction and demolition (C&D) recycling facilities and provide outreach to eleven Zero Waste Marin Member Agencies (Member Agencies) regarding the 2014 Model C&D Ordinance (Model C&D Ordinance) adopted by the Zero Waste Marin Board of Directors on May 22, 2014.

At the inception of this project, R3 and Zero Waste Marin staff established that the overall **goal is to support maximum levels of cost effective C&D diversion while minimizing administrative, financial, and operational burdens to Member Agencies, property owners, permit holders and builders.**

## Findings

### C&D Facilities

R3 worked with all eight currently certified C&D recycling facilities and five reuse facilities that wished to be recertified under Marin's certification program; there is also one new reuse facility, Marin Community Benefit Cooperative that is seeking certification under Marin's certification program.

Of the currently certified C&D recycling facilities, there are seven recycling facilities that accept mixed C&D continue to effectively recover marketable materials from mixed C&D loads. The remaining recycling facility – Asphalt Shingles Recyclers, LLC – continues to effectively recover and market asphalt from source separated asphalt shingle roofing loads. All eight of these recycling facilities achieved greater than 50% diversion in 2014, including tons used as alternative daily cover (ADC).

Several operators of recycling facilities that sort mixed C&D materials stated that minimum percentage diversion standards can create a disincentive for facilities to divert more C&D materials. This is because some facility operators are often in the position to make their own determinations about which loads of incoming materials will be designated as C&D for processing as a result of significant variability in the recoverability of contents in any given C&D load (which can and often does include materials that are not specifically C&D materials).

### Member Agencies

Nine participating Member Agencies have adopted C&D ordinances; Corte Madera and Ross do not have C&D ordinances, but do have requirements under CALGreen. Of those nine, only Mill Valley, Larkspur and Tiburon have a C&D ordinance modeled after Zero Waste Marin's 2011 Model C&D Ordinance (though Larkspur has not implementing the Model C&D Ordinance). San Rafael and Marin County (County) had previously adopted a version of the 2011 Model C&D Ordinance, but have subsequently amended the ordinance to refer to CALGreen's mandatory diversion requirements for C&D recycling. All of the members are aware of and have planned for compliance with CALGreen's mandatory diversion requirements for C&D materials,

## Section 1

Executive  
Summary

though most members should improve their documentation processes in order to meet CalRecycle requirements for municipal implementation of CALGreen.

Most members report that administration of their C&D ordinance/CALGreen requirements was not a significant burden to staff or contractors, though Corte Madera and Fairfax did report significant administrative burden. All Member Agencies have essentially the same process for implementing their C&D ordinances and programs, entailing an initial waste management plan, encouraging permit holders to direct waste to certified facilities (which according to members and the Marin Builders Association, the vast majority of all projects do), and requiring documentation prior to final inspection. All Member Agencies provide waste management plan forms to most permit applicants as the primary form of C&D recycling outreach.

Few Member Agencies provide the list of certified facilities, and only Belvedere provides supplemental outreach and education to building permit applicants. All members, except Corte Madera and Fairfax, report that permit applicants are now reasonably familiar with C&D program/CALGreen requirements, and that compliance has become the expected standard practice for doing business in Marin County. All members, except Corte Madera and Fairfax, report near 100% compliance with their C&D ordinances/CALGreen requirements.

Deposits and/or avoided disposal fees are administratively burdensome to most Member Agencies, with few Member Agencies implementing a deposit or avoided disposal fee element for their programs. Staff from Member Agencies agree that a county-wide standardized approach to C&D ordinance and program implementation could facilitate greater administrative efficiency for member agency staff and contractors. Mill Valley in particular as well as other members continue to desire options for encouraging and facilitating greater than 50% diversion from certain C&D projects. Several members have green building ordinances or interests that intersect with C&D diversion programs, but R3 found little coordination between C&D ordinances and programs and green building efforts on the whole.

### Model C&D Ordinance

No Member Agencies have adopted Zero Waste Marin's current 2014 Model C&D Ordinance, and fewer than half had previously adopted prior versions of the Model C&D Ordinance. Additionally, San Rafael and Marin County had adopted prior versions of the Model C&D Ordinance, but have since rescinded it in lieu of CALGreen's diversion requirements (Appendix A).

Many aspects of the prior and current Model C&D Ordinance pose administrative hurdles to Member Agencies. For example, diversion reports estimating the amount of C&D waste expected to be generated by each project are unnecessary in most cases, and can be an administrative burden to members and permit applicants. The Model C&D Ordinance established a reasonable level of diversion from mixed C&D materials for the vast majority of building projects in Marin County; however, projects seeking higher rates of diversion (e.g. 80% or more) for LEED credits or Build It Green points may not meet diversion goals simply by processing mixed C&D materials using certified facilities, since those loads would only receive credit for diversion rate for the specific facility used.

R3

## Section 1

Executive  
Summary

Additionally, avoided disposal fees may be unnecessary and overly burdensome for implementation by most Member Agencies. Exemptions to the ordinance are often difficult to administer, and often aren't tracked by Member Agencies.

## Recommendations

Taking into account the findings described above, as well as comments and discussion with the Zero Waste Marin Local Agency Task Force (LTF) and the LTF Subcommittee on C&D recycling, R3 is recommending that the Zero Waste Marin Board of Directors consider the following:

**Certify C&D recycling facilities that meet CALGreen diversion requirements.**

- At present, this means certifying facilities that meet 50% diversion of C&D materials, which includes all previously certified facilities.
- Facilities would need to be recertified if/when CALGreen diversion requirements change.

**Encourage and provide assistance to Member Agencies to promote CALGreen diversion requirements for all building permits.**

- Encourage Member Agencies to consider ordinance or other policy approaches that establish CALGreen diversion requirements as the standard for all building permits.
- Provide technical assistance to Member Agencies to implement ordinance or other policy changes that achieve this recommendation.

**Encourage and provide assistance to Member Agencies to use standardized C&D diversion forms and outreach for all building permits.**

- Encourage Member Agencies to use standardized C&D diversion forms and outreach materials provided by Zero Waste Marin at building counters and for all building permit applicants.
- Provide technical assistance, including the standardized C&D diversion forms and outreach, to Member Agencies including building counter staff and officials.

## Section 2

Facility  
Certifications

## Facility Certifications

R3 conducted facility certifications based on Zero Waste Marin's established Facility Certification Standards. The eight permitted solid waste facilities and five reuse facilities were all previously certified by Zero Waste Marin in 2013. R3 researched other potential facilities for certification, and made several attempts to seek a certification application from Global Industrial Carting, who declined to apply. An additional reuse facility, Marin Community Benefit Cooperative, was invited to apply for certification. No other interested and qualified facilities were identified within a reasonable hauling distance of Marin County.

Facilities that do not have a solid waste facility permit and handle only source separated non-solid waste material are classified as reuse facilities. The application and annual reporting requirements for reuse facilities are much less detailed than those for facilities which have solid waste facility permits and handle mixed C&D loads. The following five reuse facilities have provided confirmation in their interest in being certified through Zero Waste Marin's certification program:

- The Away Station
- Building Resources
- Daniel O. Davis, Inc.
- Heritage Salvage
- Urban Ore
- Marin Community Benefit Cooperative

Permitted solid waste facilities have solid waste facility permits and handle mixed loads of C&D material. R3 received applications from the following eight permitted solid waste facilities, each of which were certified by Marin Zero Waste in 2013, and have had no substantial changes in operations since that time:

- Asphalt Shingle Recyclers, LLC
- Commercial Waste & Recycling, LLC
- Davis Street Transfer Station / Resource Recovery Facility
- Devlin Road Recycling and Transfer Facility
- Marin Resource Recovery Center
- Redwood Sanitary Landfill
- West Contra Costa Sanitary Landfill
- Windsor Material Recovery Facility

## Methodology for Facility Certifications

Our methodology for our assessment of mixed C&D processing facilities and reuse facilities was as follows:

The logo for R3, consisting of the letters 'R' and '3' in a stylized, blue, handwritten font.

## Section 2

Facility  
Certifications

- R3's project manager met with Zero Waste Marin staff to review all available information related to the currently certified facilities and any issues, concerns or other facility specific information;
- R3 then contacted each previously certified facility to discuss their operations, diversion rates, status of permits, and other jurisdiction certifications held by the facility, and the facility's current recovery infrastructure and processing operations;
- R3 requested support for each facility's 2014 C&D tonnage and diversion rate;
- R3 reviewed each facility's reported threshold for selecting loads for processing (i.e., the percentage of recoverable materials) and whether or not that threshold is impacted by specific facility diversion percentage certification requirements;
- R3 requested ballpark approximations from the facilities regarding the type and amount of recoverable C&D contained in loads the facility receives but does not process, including their potential ability to begin to recover portions of that material stream;
- R3 conducted a site visit with management staff from each mixed C&D processing facility, including observations of facility operations such as types of material infeed streams and types of recoverable materials (e.g., diversion for remanufacture, ADC, on-site use); and
- R3 also encouraged input from certified facilities as to how the certification and reporting process may be improved and/or made more efficient for both the facilities and JPA staff.

## Findings for Facility Certifications

All eight processing facilities and all five reuse facilities wish to be recertified under Marin's certification program, and have not changed their operations significantly since recertification in 2013. All seven processing facilities that accept mixed C&D continue to effectively recover marketable materials from mixed C&D loads. The remaining processing facility – Asphalt Shingles Recyclers, LLC – continues to effectively recover and market asphalt from source separated asphalt shingle roofing loads.

All eight processing facilities achieved greater than 50% diversion in 2014, when non-green waste material tons used as ADC are counted towards diversion. ADC tons from all facilities include materials like painted wood, painted sheetrock, commercial (non-asphalt shingle) roofing, PVC piping, and other materials that appear not to be marketable at present.

### Mixed C&D Facility Descriptions

The following provides a brief description of each facility requesting to be certified/recertified through the Zero Waste Marin's certification program. Unless otherwise noted, C&D materials accepted by these facilities include:

## Section 2

Facility  
Certifications

- |   |                  |
|---|------------------|
| ▪ Asphalt and Concrete (AC) Grindings   | ▪ Dirt/Soil      |
| ▪ Aggregate                             | ▪ E-waste        |
| ▪ Aluminum                              | ▪ Ferrous Metals |
| ▪ Asphalt Shingles (when markets exist) | ▪ Green Waste    |
| ▪ Base Rock                             | ▪ Iron           |
| ▪ Brass                                 | ▪ Mixed C&D      |
| ▪ Brick                                 | ▪ Paint          |
| ▪ Cardboard                             | ▪ Plastic        |
| ▪ Carpet                                | ▪ Porcelain      |
| ▪ Carpet Pad                            | ▪ Stainless      |
| ▪ Concrete                              | ▪ Tin            |
| ▪ Ceramics                              | ▪ Tree Stumps    |
| ▪ Clean Fill                            | ▪ Wallboard      |
| ▪ Copper                                | ▪ Wire           |
|   | ▪ Wood           |

Table 1 on the following page details the materials handled by each of the facilities.

**Table 1: Zero Waste Marin  
2015 Certified Construction and Demolition (C&D) Processing Facilities**

Section 2

Facility  
Certifications

		<div> <div>Source Separated C&amp;D</div> <div>Mixed C&amp;D Processing</div> <div>Reuse Facilities</div> </div>								<div> <div>Asphalt Shingle Recyclers</div> <div>Commercial Waste &amp; Recycling</div> <div>Davis Street Transfer Station</div> <div>Devin Road Recycling and Transfer Facility</div> <div>Marin Resource Recovery Center</div> <div>Redwood Sanitary Landfill</div> <div>West Contra Costa Sanitary Landfill</div> <div>Windsor Material Recovery Facility</div> <div>The Awey Station</div> <div>Building Resources</div> <div>Daniel O. Davis, Inc.</div> <div>Heritage Salvage</div> <div>Urban One</div> <div>Marin Community Benefit Cooperative</div> </div>							
C&D Loads - Mixed or Source Separated	AC Grindings	BR	BR	BR	BR	BR	T/BR	BR	BR								
	Aggregate	BR	BR	BR	BR	BR	T/BR	BR	BR								
	Aluminum		R	R	R	R	T/R	R	R								
	Asphalt	BR	BR	BR	BR	BR	T/BR	BR	BR								
	Asphalt Shingles	BR	T	L	A	R	T/BR	L									
	Base Rock	BR		BR	BR	BR	T/BR	BR	BR								
	Batteries				R	R			R								
	Brass		R	R	R	R	R	R	R								
	Brick	RP	BR	BR	BR	BR	T/BR	BR	BR								
	Cardboard		R	R	R	R	R	R	R								
	Carpet		L	L	R	R	L	L	L								
	Carpet Padding		R	L	R	R	L	L	L								
	Ceramics	A	A	A	BR	BR	T/BR	BR/A	BR								
	Clean Fill	A		A		BR	T/BR	BR/A	BR								
	Concrete	A	A	BR/A	BR	BR	T/BR	BR/A	BR								
	Copper		R	R	R	R	R	R	R								
	Dirt/Soil	A	A	A	C	C	T/BR	BR/A	C								
	Electronics			R	R												
	Ferrous Metals		R	R	R	R	R	R	R								
	Green Waste		B	C	C	C	C	C	C								
	Iron		R	R	R	R	R	R	R								
	Paint				R				R/L								
	Plastic		R	R	R	R	R	R	R								
	Porcelain	BR	BR	BR	BR	BR	T/BR	BR	BR								
	Stainless		R	R	R	R	R	R	R								
	Tin		R	R	R	R	R	R	R								
	Tree Stumps		B	C	C	C	C	C	C								
	Wallboard		R	C	R	C	T	C	C								
	Wire		R	R	R	R	R	R	R								
	Wood		B	B/C	C	C	A	C	C								
Reusable Items	Appliances									S					S		
	Building Materials									S	S	S			S	S	
	Household Items									S					S		
	Furniture									S	S				S	S	

**Recovery and Disposal Methods Key**

A = ADC, cover material placed on the surface of a solid waste landfill at the end of each operating day.  
 B = Biomass, organic matter used as a fuel in a power station for the generation of electricity.  
 BR = Beneficial reuse/road base, materials reused by a facility in their own operations or sent elsewhere for reuse.  
 C = Compost, soil and mulch, landscape materials created from organic waste.  
 L = Landfill, materials disposed of at a landfill.  
 R = Recycling, materials treated or processed at the facility for recovery.  
 S = Salvage, materials recovered for reuse.  
 T = Transfer, materials sent to a processing facility for recovery.



### Asphalt Shingle Recyclers, LLC

Asphalt Shingle Recyclers, LLC (ASR) is a transfer station / processing facility. The facility only accepts AC grindings, aggregate, asphalt, base rock, brick, ceramics, clean fill, concrete, dirt/soil, porcelain, and shingles. ASR is permitted as a “Small Volume Inert Debris Processing Facility”. ASR accepts clean source separated loads of asphalt shingle roofing, which is then cleaned of contaminants such as wood, metal and cardboard, and then mechanically ground and processed for marketing as source material roads and other uses.

Table 2 on the following page shows the recovery and disposal methods for materials accepted by Asphalt Shingle Recyclers, LLC.

## Section 2

### Facility Certifications

R3

## Section 2

Table 2: Materials Accepted and Recovered, Asphalt Shingle Recyclers, LLC

Facility  
Certifications

		Recovery and Disposal Methods								
		Transfer to C&D Processing Facility	Recycling	Soil, Compost and Mulch	Reuse Partners	Biofuel/ Biomass	Road Base	Off-site Reuse	ADC	Landfilled Residual
C&D Loads - Source Separated Only	AC Grindings						X			
	Aggregate						X			
	Aluminum									
	Asphalt						X			
	Asphalt Shingles						X			
	Base Rock						X			
	Batteries									
	Brass									
	Brick				X					
	Cardboard									
	Carpet									
	Carpet Padding									
	Ceramics								X	
	Clean Fill								X	
	Concrete								X	
	Copper									
	Dirt/Soil								X	
	Electronics									
	Ferrous Metals									
	Green Waste									
	Iron									
	Paint									
	Plastic									
	Porcelain						X			
	Stainless									
	Tin									
	Tree Stumps									
	Wallboard									
	Wire									
	Wood									
Reusable Items	Appliances									
	Building Materials									
	Household Items									
	Furniture									

Commercial Waste & Recycling, LLC

Commercial Waste & Recycling, LLC (CW&R) is a transfer station / processing facility. The facility does not accept paint, E-waste, AC Grindings, or Clean Fill. CW&R is permitted as a “Medium Volume CDI Processing Facility” and a “Small Volume Chipping and Grinding Facility”. CW&R accepts loads of mixed and source separated C&D at its transfer station. Source separated loads are directed to source separated bays, and mixed C&D loads are tipped on a sort floor where they are processed by hand and with heavy equipment to remove recoverable materials including green waste, metals, cardboard, carpet, and other marketable materials. Materials that are left over and do not have current markets (e.g. painted wood and sheetrock, commercial roofing, and PVC piping) are ground onsite for marketing as ADC. ADC and landfill are the primary cost centers for CW&R’s materials; they are very interested in alternative markets for materials currently processed as ADC.

Table 3 on the following page shows the recovery and disposal methods for materials accepted by Commercial Waste & Recycling, LLC.

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## Section 2

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Certifications**Table 3: Materials Accepted and Recovered, Commercial Waste & Recycling, LLC**

		Recovery and Disposal Methods							
		Transfer to Asphalt Shingle Recyclers	Recycling	Soil, Compost and Mulch	Reuse Partners	Biofuel/ Biomass	Off-site Reuse/Road base	ADC	Landfilled Residual
C&D Loads - Mixed or Source Separated	AC Grindings						X		
	Aggregate						X		
	Aluminum		X						
	Asphalt						X		
	Asphalt Shingles	X							
	Base Rock								
	Brass		X						
	Brick						X		
	Cardboard		X						
	Carpet								X
	Carpet Padding		X						
	Ceramics							X	
	Concrete							X	
	Copper		X						
	Ferrous Metals		X						
	Iron		X						
	Plastic		X						
	Porcelain						X		
	Stainless		X						
	Tin		X						
	Tree Stumps					X			
	Wallboard		X						
	Wire		X						
	Wood					X			
Source Separated Only	Batteries								
	Clean Fill								
	Dirt/Soil							X	
	Electronics								
	Green Waste					X			
	Paint								
Reusable Items	Appliances								
	Building Materials								
	Household Items								
	Furniture								

Davis Street Transfer Station / Resource Recovery Facility

Davis Street Transfer Station (Davis Street TS) is a transfer station / processing facility. The facility does not accept paint, but does accept fines. Davis Street TS is owned by Waste Management, who also owns Redwood Landfill in Novato and the Altamont Landfill in Livermore. All loads are processed using conveyor belts, mechanical separators, and staffed sorting stations. The remaining material is then hand sorted manually in a sort line. Davis Street TS is permitted as a “Large Volume Transfer/Processing Facility”.

Table 4 on the following page shows the recovery and disposal methods for materials accepted by Davis Street TS.

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Table 4: Materials Accepted and Recovered, Davis Street TS

		Recovery and Disposal Methods							
		Transfer to C&D Processing Facility	Recycling	Soil, Compost and Mulch	Reuse Partners	Biofuel/ Biomass	Reused on-site or at Altamont Land Fill	ADC	Landfilled Residual
C&D Loads - Mixed or Source Separated	AC Grindings						X		
	Aggregate						X		
	Aluminum		X						
	Asphalt						X		
	Asphalt Shingles								X
	Base Rock						X		
	Brass		X						
	Brick						X		
	Cardboard		X						
	Carpet								X
	Carpet Padding								X
	Ceramics							X	
	Concrete						X	X	
	Copper		X						
	Ferrous Metals		X						
	Green Waste					X			
	Iron		X						
	Plastic		X						
	Porcelain						X		
	Stainless		X						
	Tin		X						
	Tree Stumps			X					
	Wallboard			X					
	Wire		X						
	Wood			X		X			
Source Separated Only	Batteries								
	Clean Fill							X	
	Dirt/Soil							X	
	Electronics		X						
	Paint								
Reusable Items	Appliances								
	Building Materials								
	Household Items								
	Furniture								

Devlin Road Recycling and Transfer Facility

Devlin Road Recycling and Transfer Facility is a transfer station / processing facility. The facility accepts reuse items such as clothes, furniture, doors, windows, sports equipment, etc., in addition to the list of C&D materials noted above. All mixed C&D loads are pre-processed with an excavator and then loaded onto the feed belt of the C&D sort line. All material is pre-processed on a 2 inch minus screen to remove dirt and fines for ADC. The remaining material is then hand sorted manually in a sort line. Devlin Road Recycling and Transfer Facility is permitted as a “Large Volume Transfer/Processing Facility”.

Table 5 on the following page shows the recovery and disposal methods for materials accepted by Devlin Road Recycling and Transfer Facility.

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Table 5: Materials Accepted and Recovered, Devlin Road

Facility  
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		Recovery and Disposal Methods							
		Transfer to C&D Processing Facility	Recycling	Soil, Compost and Mulch	Reuse Partners	Biofuel/ Biomass	Reused on-site as Base Rock	ADC	Landfilled Residual
C&D Loads - Mixed or Source Separated	AC Grindings						X		
	Aggregate						X		
	Aluminum		X						
	Asphalt						X		
	Asphalt Shingles							X	
	Base Rock						X		
	Brass		X						
	Brick						X		
	Cardboard		X						
	Carpet		X						
	Carpet Padding		X						
	Ceramics						X		
	Concrete						X		
	Copper		X						
	Ferrous Metals		X						
	Green Waste			X					
	Iron		X						
	Plastic		X						
	Porcelain						X		
	Stainless		X						
	Tin		X						
	Tree Stumps			X					
	Wallboard								
	Wire		X						
	Wood			X					
Source Separated Only	Batteries		X						
	Clean Fill								
	Dirt/Soil			X					
	Electronics		X						
	Paint		X						
Reusable Items	Appliances								
	Building Materials				X				
	Household Items				X				
	Furniture				X				



### Marin Resource Recovery Center

Marin Resource Recovery Center is a transfer station / processing facility. The facility accepts all materials except E-waste and paint, which are received at the HHW facility on-site. All loads are processed using conveyor belts, mechanical separators, and staffed sorting stations. Marin Resource Recovery Center is permitted as a “Large Volume Transfer/Processing Facility”.

Table 6 on the following page shows the recovery and disposal methods for materials accepted by Marin Resource Recovery Center.

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### Facility Certifications

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Table 6: Materials Accepted and Recovered, Marin Resource Recovery Center

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Certifications

		Recovery and Disposal Methods							
		Transfer to C&D Processing Facility	Recycling	Soil, Compost and Mulch	Reuse Partners	Biofuel/ Biomass	Off-site Reuse/Road base	ADC	Landfilled Residual
C&D Loads - Mixed or Source Separated	AC Grindings						X		
	Aggregate						X		
	Aluminum		X						
	Asphalt						X		
	Asphalt Shingles		X						
	Base Rock						X		
	Brass		X						
	Brick						X		
	Cardboard		X						
	Carpet		X						
	Carpet Padding		X						
	Ceramics						X		
	Concrete						X		
	Copper		X						
	Ferrous Metals		X						
	Iron		X						
	Plastic		X						
	Porcelain						X		
	Stainless		X						
	Tin		X						
	Tree Stumps			X					
	Wallboard			X					
	Wire		X						
	Wood			X					X
	Batteries		X						
	Clean Fill						X		
	Dirt/Soil			X					
	Electronics								
	Green Waste			X					
	Paint								
Reusable Items	Appliances								
	Building Materials								
	Household Items								
	Furniture								

## Section 2

### Facility Certifications

#### Redwood Sanitary Landfill

Redwood Sanitary Landfill is a transfer only facility. The facility accepts all materials except E-waste and paint. Mixed C&D loads are sent to the Davis Street Transfer Station, which is another Permitted Solid Waste Facility and is owned by the same company, for processing. Redwood Sanitary Landfill is permitted as a “Solid Waste Landfill, Composting Facility (Other), and Composting Facility (Mixed)”.

Table 7 on the following page shows the recovery and disposal methods for materials accepted by Redwood Sanitary Landfill.

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## Section 2

Facility  
Certifications**Table 7: Materials Accepted and Recovered, Redwood Sanitary Landfill**

		Recovery and Disposal Methods							
		Transfer to Davis Street	Recycling	Soil, Compost and Mulch	Reuse Partners	Biofuel/Biomass	On-site Reuse/Road base	ADC	Landfilled Residual
C&D Loads - Mixed or Source Separated	AC Grindings	X					X		
	Aggregate	X					X		
	Aluminum		X						
	Asphalt	X					X		
	Asphalt Shingles	X					X		
	Base Rock	X					X		
	Brass		X						
	Brick	X					X		
	Cardboard		X						
	Carpet								X
	Carpet Padding								X
	Ceramics	X					X		
	Concrete	X					X		
	Copper		X						
	Ferrous Metals		X						
	Iron		X						
	Plastic		X						
	Porcelain	X					X		
	Stainless		X						
	Tin		X						
	Tree Stumps			X					
	Wallboard	X							
	Wire		X						
	Wood							X	
	Batteries								
	Clean Fill	X					X		
	Dirt/Soil	X					X		
	Electronics								
	Green Waste			X					
	Paint								
Reusable Items	Appliances								
	Building Materials								
	Household Items								
	Furniture								

### West Contra Costa Sanitary Landfill

West Contra Costa Sanitary Landfill is a transfer station / processing facility. The facility accepts all materials except paint, E-waste, and dirt/soil; however, clean fill is accepted on an as needed basis only. The facility uses an excavator and bulldozer along with an elevated conveyor to aid in the processing of the C&D loads. Manual labor is also used, both on the ground and at the conveyor, to sort through the mixed C&D materials. West Contra Costa Sanitary Landfill is permitted as a “Solid Waste Landfill”.

Table 8 on the following page shows the recovery and disposal methods for materials accepted by West Contra Costa Sanitary Landfill.

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Certifications

Table 8: Materials Accepted and Recovered, West Contra Costa Sanitary Landfill

		Recovery and Disposal Methods							
		Transfer to C&D Processing Facility	Recycling	Soil, Compost and Mulch	Reuse Partners	Biofuel/ Biomass	On-site Reuse/ Road Base	ADC	Landfilled Residual
C&D Loads - Mixed or Source Separated	AC Grindings						X		
	Aggregate						X		
	Aluminum		X						
	Asphalt						X		
	Asphalt Shingles								X
	Base Rock						X		
	Brass		X						
	Brick						X		
	Cardboard		X						
	Carpet								X
	Carpet Padding								X
	Ceramics						X	X	
	Concrete						X	X	
	Copper		X						
	Ferrous Metals		X						
	Green Waste			X					
	Iron		X						
	Plastic		X						
	Porcelain						X		
	Stainless		X						
	Tin		X						
	Tree Stumps			X					
	Wallboard			X					
	Wire		X						
	Wood			X		X			
Source Separated Only	Batteries								
	Clean Fill						X	X	
	Dirt/Soil						X	X	
	Electronics								
	Paint								
Reusable Items	Appliances								
	Building Materials								
	Household Items								
	Furniture								

### Windsor Material Recovery Facility

Windsor Material Recovery Facility is a transfer station / processing facility. The facility accepts all materials except paint, and also accepts treated lumber. The facility hand sorts and uses small equipment to source separate all materials and is permitted as a “Medium Volume CDI Processing Facility”.

Table 9 on the following page shows the recovery and disposal methods for materials accepted by Windsor Material Recovery Facility.

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### Facility Certifications

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Facility  
Certifications

Table 9: Materials Accepted and Recovered, Windsor Material Recovery Facility

		Recovery and Disposal Methods							
		Transfer to C&D Processing Facility	Recycling	Soil, Compost and Mulch	Reuse Partners	Biofuel/ Biomass	Beneficial Reuse/Road base	ADC	Landfilled Residual
C&D Loads - Mixed or Source Separated	AC Grindings						X		
	Aggregate						X		
	Aluminum		X						
	Asphalt						X		
	Asphalt Shingles		X						
	Base Rock						X		
	Brass		X						
	Brick						X		
	Cardboard		X						
	Carpet								X
	Carpet Padding								X
	Ceramics						X		
	Concrete						X		
	Copper		X						
	Ferrous Metals		X						
	Iron		X						
	Plastic		X						
	Porcelain						X		
	Stainless		X						
	Tin		X						
	Tree Stumps			X					
	Wallboard			X					
	Wire		X						
	Wood			X					
	Batteries		X						
	Clean Fill						X		
	Dirt/Soil			X					
	Electronics								
	Green Waste			X					
	Paint		X						X
Reusable Items	Appliances								
	Building Materials								
	Household Items								
	Furniture								



## Section 2

Facility  
Certifications**On-site Review and Analysis**

The on-site reviews of permitted solid waste facilities were conducted to assess existing C&D processing capabilities as well as policies and procedures that will be used to comply with the various requirements included in Zero Waste Marin's Facility Certification Standards. In all cases, with the exception of the Redwood Sanitary Landfill (which is currently operating as a transfer facility, sending its loads of mixed C&D debris to the Davis Street Transfer Station for processing when requested by customers), all of the permitted solid waste facilities are currently processing mixed C&D loads in a manner that is consistent with the certification requirements.

As shown in Table 10 below, all facilities achieved a minimum of 50% diversion in 2014, when ADC materials are counted towards diversion. Appendix B includes photos from the on-site reviews for reference.

<b>Table 10 – 2014 Diversion by Facility</b>		
<b>Facility Name</b>	<b>% Diversion with ADC</b>	<b>% Diversion without ADC</b>
Asphalt Shingle Recyclers	100%	99%
Commercial Waste & Recycling	75%	27%
Davis Street Transfer Station	85%	42%
Devlin Road Recycling & Transfer Facility	84%	32%
Marin Resource Recovery Center	75%	66%
Redwood Sanitary Landfill	85%	42%
West Contra Costa Sanitary Landfill	87%	64%
Windsor Material Recovery Facility	71%	58%

A focus of R3's approach to the facility certification process was on facility policies and procedures for classifying incoming loads. Specifically, we reviewed the basis upon which facility scale house personnel determine if a load is to be classified as C&D debris versus refuse or some other classification, the tonnages of which would not factor into the facilities calculated diversion rate. One of the major issues raised is that a facility may not be able to meet the specific diversion requirements if it chooses to process loads of mixed C&D materials with relatively low levels of recoverable materials.

As such, diversion percentage standards can, and in some cases, do create a disincentive for facilities to divert more C&D debris. For example, minimum diversion thresholds can prevent facilities from processing lower quality loads that have less

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## Section 2

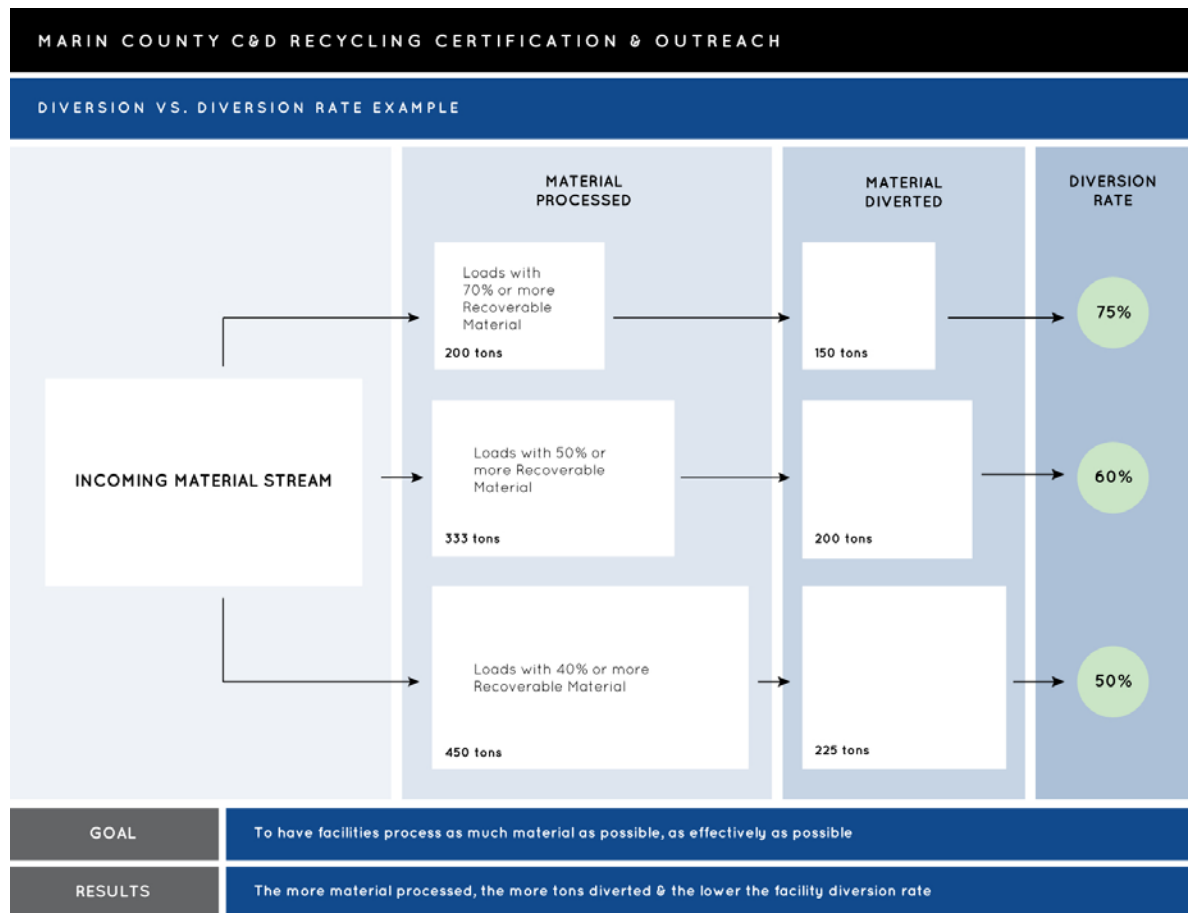
Facility  
Certifications

recoverable material, since doing so would decrease a facility's overall diversion percentage even though it would result in the diversion of additional C&D materials.

### Unintended Effects of High % Diversion Standards

Holding C&D facilities to high minimum standards of diversion, e.g. 70% - 85%, etc. can create a negative incentive for some facilities to process loads of waste containing significant amounts of divertible C&D materials. R3 had identified this as a potential concern prior to starting this project, and during its course found that, as a direct result of minimum diversion thresholds, some C&D facility operators may not sort loads containing less than the target amount of divertible C&D materials. This is because, as some facility operators openly admit, processing loads that contain low amounts of perfectly divertible materials – for example, 25% metal and wood – but are otherwise comprised of non-divertible materials, can bring down their diversion percentage.

Figure 1, below, demonstrates this effect.



It is important to note that this effect is only an issue when C&D facilities have discretion to direct the flow of incoming waste to landfill or C&D sorting, unless C&D material generators request that their materials are sorted for diversion. Though the current Model C&D Ordinance does state that facility operators must sort all loads of mixed C&D materials, loads containing C&D materials are varied in content; unless a

load contains high levels of divertible materials or is specifically requested at the scale house, determining whether a load is a “C&D load” is subject to discretion, and is influenced by the incentive to keep the diversion percentage high.

## Recommendations for Facility Certifications

### **Certify all C&D Recycling Facilities**

Based on the finding that all facilities achieve CALGreen’s 50% diversion requirement, R3 recommends that Zero Waste Marin certify all existing facilities. A list of facilities recommended for certification is included as Appendix C.

## Section 2

### Facility Certifications

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## Section 3

Member  
Agency  
Program  
Assessments

## Member Agency Program Assessments

R3 assessed member agency level of implementation of C&D recycling ordinances, programs and outreach for each member agency. This assessment included reviewing current practices at building counters, identifying improvements and potential enhancements to 2014 Model C&D Ordinance, and seeking member agency feedback about potential barriers to efficient and effective implementation of C&D diversion programs. We assessed administration of the ordinance, including current practices, staff time requirements, and historical compliance results. Our objective was to work with each member agency to determine whether any specific enhancements to the Model C&D Ordinance would leverage the specific conditions in each jurisdiction and provide for the most efficient administration county-wide.

It is worth noting that most member agency staff with the responsibility of overseeing and implementing C&D diversion programs are new to their current positions since initial promulgation of the 2011 Model C&D Ordinance. As a result, many conversations with Member Agencies also included an introduction to C&D diversion programs and ordinances. This underscores the need for future and recurrent efforts to work with member agency staff on effective administration of C&D diversion programs.

### Methodology for Member Agency Program Assessments

In support of this assessment of member agency, ordinances, and outreach R3:

- Identified member agency staff responsible for administration of C&D programs and ordinances, which generally included building officials, counter and other staff;
- Scheduled on-site discussion meetings with each member agency to introduce the Model C&D Ordinance as well as gather information and provide support for C&D programs, ordinances and outreach. A list of member agency contacts is included as Appendix D;
- R3 reviewed building counter practices with specific attention to the current responsibilities and requirements of all stakeholders, existing policies and procedures, methods used to determine compliance with the ordinance, and historical compliance results; and
- Reviewed the efficiency and effectiveness of C&D program and ordinance administration, staff time requirements, feedback from project applicants and builders, and feedback regarding enhancements to the program and ordinance that would improve effectiveness and efficiency.

### Findings for Member Agency Program Assessments

Table 11 on the following page provides an overview of county-wide C&D ordinances and programs by member agency.

## Section 3

Member  
Agency  
Program  
Assessments

Table 11 – Member Agency C&D Ordinance / Program Overview					
Agency	C&D Ordinance	Mixed C&D Diversion %	Deposit/ Avoided Disposal Fee <sup>1</sup>	Addresses CALGreen	Covered Project Threshold
Belvedere	✓	50%	3% deposit	✓	All C&D projects and renovations
Corte Madera	NA	NA	NA	No <sup>2</sup>	NA
Fairfax	✓	70%	3% ADF \$10K max	No <sup>3</sup>	\$2,000 residential \$5,000 commercial
Larkspur	✓	80%	3% ADF \$10K max	✓	All permits
Mill Valley	✓	80%	NA	✓	All permits
Ross	NA	NA	NA	✓ <sup>4</sup>	All C&D projects and renovations
San Anselmo	✓	70%	3% ADF \$10K max	No <sup>5</sup>	All permits, <\$10K exemption
San Rafael	✓	50%	NA	✓	As per CALGreen
Sausalito	✓	50%	\$500 verification fee	✓	All permits
Tiburon	✓	80%	3% ADF \$10K max	No <sup>6</sup>	All C&D projects, <500 sf exemption
Marin County	✓	50%	NA	✓	All C&D projects and renovations

<sup>1</sup> Although most member agencies do have a deposit of avoided disposal fee, very few agencies reported implementing these elements.

<sup>2</sup> Corte Madera needs to implement a process to document project compliance with CALGreen 2013 mandatory diversion requirements; the deliverables of this project will facilitate that effort.

<sup>3</sup> The valuation thresholds for covered projects may be in conflict with CALGreen in some cases.

<sup>4</sup> Although Ross does not have a C&D ordinance, it is administering a C&D program that appears to meet the requirements of CALGreen.

<sup>5</sup> The <\$10,000 value exemption may be in conflict with CALGreen in some cases.

<sup>6</sup> The <500 sf exemption may be in conflict with CALGreen in some cases.

## Section 3

Member  
Agency  
Program  
Assessments**Most Member Agencies are Implementing C&D Ordinances**

As shown above, nine Member Agencies have adopted C&D ordinances, with only Corte Madera and Ross without specific C&D ordinances. Of those nine, only Mill Valley, Larkspur and Tiburon have a C&D ordinance modeled after Zero Waste Marin's 2011 Model C&D Ordinance. San Rafael and Marin County had previously adopted a version of the 2011 Model C&D Ordinance, but have subsequently amended the ordinance to refer to CALGreen's minimum standards for C&D recycling. All of the members are aware of and have planned for compliance with CALGreen's mandatory diversion requirements for C&D materials, though most members should improve their documentation processes in order to meet CalRecycle requirements for municipal implementation of CALGreen. Most members report that administration of their C&D ordinance/CALGreen requirements was not a significant burden to staff or contractors, though Corte Madera and Fairfax did report significant administrative burden.

**All Member Agencies have Similar Program Administration and Outreach**

Notably, all Member Agencies have essentially the same process for implementing their C&D ordinances and programs, entailing an initial waste management plan, encouraging permit holders to direct waste to certified facilities (which according to members and the Marin Builders Association, the vast majority of all projects do) and requiring documentation prior to final inspection. For example, all Member Agencies provide waste management plan forms to most permit applicants as the primary form of C&D recycling outreach. Few Member Agencies provided the list of certified facilities, and only Belvedere provides supplemental information about deconstruction as a form of diversion.

**Most Member Agencies Report No Issues with C&D Program Implementation**

All members except Corte Madera and Fairfax reported that permit applicants are now reasonably used to C&D program requirements, and that compliance has become the standard practice for doing business in Marin County. All members except Corte Madera and Fairfax reported near 100% compliance with their C&D ordinances/CALGreen requirements. Members also reported that deposits and/or avoided disposal fees are administratively burdensome to most Member Agencies.

**Most Member Agencies see Standardization as a Benefit**

Staff from all Member Agencies agreed that a county-wide standardized approach to C&D ordinance and program implementation could facilitate greater administrative efficiency for member agency staff and contractors. Additionally, Mill Valley and other members continue to desire options for encouraging and facilitating greater than 50% diversion from certain C&D projects. Several members have green building ordinances or interests that intersect with C&D diversion programs, but R3 found little coordination between C&D ordinances and programs and green building efforts.

**Recommendations for Member Agency Assessments**

Based on our assessment of ordinance implementation and current management and administrative practices and the goals of this project, R3 recommends that Zero Waste Marin:

## Section 3

Member  
Agency  
Program  
Assessments**Encourage and provide assistance to Member Agencies to promote CALGreen diversion requirements for all building permits.**

- Encourage Member Agencies to consider ordinance or other policy approaches that establish CALGreen diversion requirements as the standard for all building permits.
- Provide technical assistance to Member Agencies to implement ordinance or other policy changes that achieve this recommendation.

**Encourage and provide assistance to Member Agencies to use standardized C&D diversion forms and outreach for all building permits.**

- Encourage Member Agencies to use standardized C&D diversion forms and outreach materials provided by Zero Waste Marin at building counters and for all building permit applicants.
- Provide technical assistance, including the standardized C&D diversion forms and outreach, to Member Agencies including building counter staff and officials.

A sample of the combined flyer/waste management plan form, and facility listing and map is included in Appendix C. R3 anticipates that finalization of this piece will occur in the next iteration of Zero Waste Marin's C&D efforts, involving participation of Zero Waste Marin, its Member Agencies, Marin County recycling facilities and haulers, the Marin Builders Association, and the Marin County Codes Advisory Board. Several comments for improvement of the sample form have been received and should be considered prior to finalization and distribution of the forms to the Member Agencies, including:

- Listing any of the parties for whom the form may be applicable, including permittees, contractors, project owners, etc.;
- Revising the text so that it is functional for all parties and clearly distinguishes that the "easy steps" are to deconstruct, source separate, and/or use a certified facility for mixed debris;
- Revising the text to indicate that the "detailed steps" are for use of a non-certified facility;
- Put the onus on the project owner/contractor to direct waste for recycling, not on the person delivering the materials to the facilities; and
- List / number facilities in order of proximity to Marin County.

Through these efforts, Zero Waste Marin could also seek to provide a short list of best practices for contractors, a cheat sheet for building officials, and/or tips for project owners on working with your contractor and recycler.

R3

## Appendix A

### CalGreen C&D Diversion Requirements



## CALIFORNIA GREEN BUILDING STANDARDS CODE – MATRIX ADOPTION TABLE

### CHAPTER 3 – GREEN BUILDING

(Matrix Adoption Tables are non-regulatory, intended only as an aid to the user.  
See Chapter 1 for state agency authority and building applications.)

Adopting agency	BSC	SFM	HCD			DSA		OSHDP				BSCC	DPH	AGR	DWR	CEC	CA	SL	SLC
			1	2	1-AC	AC	SS	1	2	3	4								
Adopt entire CA chapter																			
Adopt entire chapter as amended (amended sections listed below)																			
Adopt only those sections that are listed below	X		X				X	X	X	X									
Chapter/Section																			
301	X		X				X	X	X	X									
301.1			X																
301.1.1			X																
301.2			X																
301.3	X																		
302	X		X				X	X	X	X									
303	X		X				X	X	X	X									
304	X		X					X	X	X									
304.1.1 (2nd paragraph)			X																
305								X											
306							X												

## CHAPTER 3

### GREEN BUILDING

#### SECTION 301 GENERAL

**301.1 Scope.** Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

**301.1.1 Additions and alterations. [HCD]** The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.

**Note:** On and after January 1, 2014, residential buildings undergoing permitted alterations, additions or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.

**301.2 Low-rise and high-rise residential buildings. [HCD]** The provisions of individual sections of *CALGreen* may apply

to either low-rise residential buildings, high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.

**301.3 Nonresidential additions and alterations. [BSC]** The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and alterations [AA]. When the code section applies to both, no banner will be used.

#### SECTION 302 MIXED OCCUPANCY BUILDINGS

**302.1 Mixed occupancy buildings.** In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

### SECTION 303 PHASED PROJECTS

**303.1 Phased projects.** For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

**303.1.1 Tenant improvements.** The provisions of this code shall apply only to the initial tenant or occupant improvements to a project.

### SECTION 304 VOLUNTARY TIERS

**304.1 Purpose.** Voluntary tiers are intended to further encourage building practices that improve public health, safety and general welfare by promoting the use of building concepts which minimize the building's impact on the environment and promote a more sustainable design.

**304.1.1 Tiers.** The provisions of Divisions A4.6 and A5.6 outline means, in the form of voluntary tiers, for achieving enhanced construction levels by incorporating additional measures for residential and nonresidential new construction. Voluntary tiers may be adopted by local governments and, when adopted, enforced by local enforcing agencies. Buildings complying with tiers specified for each occupancy contain additional prerequisite and elective green building measures necessary to meet the threshold of each tier. See Section 101.7 of this code for procedures and requirements related to local amendments, additions or deletions, including changes to energy standards.

**[BSC & HCD]** Where there are practical difficulties involved in complying with the threshold levels of a tier, the enforcing agency may grant modifications for individual cases. The enforcing agency shall first find that a special individual reason makes the strict letter of the tier impractical and that modification is in conformance with the intent and purpose of the measure. The details of any action granting modification shall be recorded and entered in the files of the enforcing agency.

### SECTION 305 [OSHPD 1] CALGreen TIER 1 AND CALGreen TIER 2

**305.1 CALGreen Tier 1 and CALGreen Tier 2** buildings contain voluntary green building measures necessary to meet the threshold of each level.

**305.1.1 CALGreen Tier 1.** To achieve *CALGreen* Tier 1, buildings must comply with the latest edition of "Savings By Design, Healthcare Modeling Procedures" found online at [http://www.energysoft.com/main/page\\_downloads\\_sbd\\_healthcare.html](http://www.energysoft.com/main/page_downloads_sbd_healthcare.html).

**305.1.2 CALGreen Tier 2.** To achieve *CALGreen* Tier 2, buildings must exceed the latest edition of "Savings By Design, Healthcare Modeling Procedures" by a minimum of 15 percent.

### SECTION 306 [DSA-SS] VOLUNTARY MEASURES

**306.1 Purpose.** For public schools and community colleges, Appendix A5, Nonresidential Voluntary Measures, is provided as a guideline to further encourage building practices that improve public health, safety and general welfare by promoting the use of building concepts which minimize the building's impact on the environment, promote a more sustainable design and high-performance educational facilities.

**306.1.1** The optional provisions of Appendix A5, Divisions A5.1 through A5.5, outline means of achieving enhanced construction levels by incorporating additional measures that exceed the mandatory code.

## CHAPTER 4

# RESIDENTIAL MANDATORY MEASURES

### *Division 4.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY*

#### SECTION 4.401 GENERAL

**4.401.1 Scope.** The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture; construction waste diversion; employment of techniques to reduce pollution through recycling of materials; and building commissioning or testing, adjusting and balancing.

#### SECTION 4.402 DEFINITIONS

|| **4.402.1 Definitions.** Reserved.

#### SECTION 4.403 FOUNDATION SYSTEMS (Reserved)

#### SECTION 4.404 EFFICIENT FRAMING TECHNIQUES (Reserved)

#### SECTION 4.405 MATERIAL SOURCES (Reserved)

#### SECTION 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

|| **4.406.1 Rodent proofing.** Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.

#### SECTION 4.407 WATER RESISTANCE AND MOISTURE MANAGEMENT (Reserved)

#### SECTION 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

**4.408.1 Construction waste management.** Recycle and/or salvage for reuse a minimum of 50 percent of the nonhazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.

##### **Exceptions:**

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.
3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.

**4.408.2 Construction waste management plan.** Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.

1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.
2. Specify if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identify diversion facilities where the construction and demolition waste material will be taken.
4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.
5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

**4.408.3 Waste management company.** Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.

**Note:** The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

## RESIDENTIAL MANDATORY MEASURES

**4.408.4 Waste stream reduction alternative.** Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed four (4) lbs./sq. ft. of the building area shall meet the minimum 50 percent construction waste reduction requirement in Section 4.408.1.

**4.408.4.1 Waste stream reduction alternative. [HR]** Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed two (2) pounds per square foot of the building area, shall meet the minimum 50-percent construction waste reduction requirement in Section 4.408.1.

**4.408.5 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4.

### Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at [www.hcd.ca.gov/CALGreen.html](http://www.hcd.ca.gov/CALGreen.html) may be used to assist in documenting compliance with this section.
2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

## SECTION 4.409 LIFE CYCLE ASSESSMENT (Reserved)

## SECTION 4.410 BUILDING MAINTENANCE AND OPERATION

**4.410.1 Operation and maintenance manual.** At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:

1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
2. Operation and maintenance instructions for the following:
  - a. Equipment and appliances, including water-saving devices and systems, HVAC systems, water-heating systems and other major appliances and equipment.
  - b. Roof and yard drainage, including gutters and downspouts.
  - c. Space conditioning systems, including condensers and air filters.
  - d. Landscape irrigation systems.
  - e. Water reuse systems.
3. Information from local utility, water and waste recovery providers on methods to further reduce resource

consumption, including recycle programs and locations.

4. Public transportation and/or carpool options available in the area.
5. Educational material on the positive impacts of an interior relative humidity between 30–60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
6. Information about water-conserving landscape and irrigation design and controllers which conserve water.
7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
9. Information about state solar energy and incentive programs available.
10. A copy of all special inspection verifications required by the enforcing agency or this code.

## SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

**5.407.1 Weather protection.** Provide a weather-resistant exterior wall and foundation envelope as required by *California Building Code* Section 1403.2 (Weather Protection) and *California Energy Code* Section 150, (Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent.

**5.407.2 Moisture control.** Employ moisture control measures by the following methods.

**5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures.

**5.407.2.2 Entries and openings.** Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

**5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

**5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane.

## SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

**5.408.1 Construction waste management.** Recycle and/or salvage for reuse a minimum of 50 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

**5.408.1.1 Construction waste management plan.** Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.

4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

**5.408.1.2 Waste management company.** Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

**Note:** The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

### Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

**5.408.1.3 Waste stream reduction alternative.** The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 50 percent minimum requirement as approved by the enforcing agency.

**5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

### Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at <http://www.bsc.ca.gov/Home/CALGreen.aspx> may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

**5.408.3 Excavated soil and land clearing debris.** [BSC] 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

**Exception:** Reuse, either on- or off-site, of vegetation or soil contaminated by disease or pest infestation.

### Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. ([www.cdfr.ca.gov/exec/county/county\\_contacts.html](http://www.cdfr.ca.gov/exec/county/county_contacts.html))

2. For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. ([www.cdffa.ca.gov](http://www.cdffa.ca.gov))

## SECTION 5.409 LIFE CYCLE ASSESSMENT (Reserved)

### SECTION 5.410 BUILDING MAINTENANCE AND OPERATION

**5.410.1 Recycling by occupants.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

**5.410.1.1 Additions.** [A] All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.

**Exception:** Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.

**5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

**Note:** A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

**5.410.2 Commissioning.** [N] For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. Commissioning requirements shall include:

1. Owner's or owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

**Exceptions:**

1. Dry storage warehouses of any size.

2. Areas under 10,000 square feet used for offices or other conditioned accessory spaces within dry storage warehouses.
3. Tenant improvements under 10,000 square feet as described in Section 303.1.1.

\*4. Commissioning requirements for energy systems covered by the 2013 *California Energy Code*.

All building operating systems covered by Title 24, Part 6, as well as process equipment and controls, and renewable energy systems shall be included in the scope of the commissioning requirements.

**5.410.2.1 Owner's or Owner representative's Project Requirements (OPR).** [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals.
- \*2. Energy efficiency goals [Refer to 2013 *California Energy Code*, Section 120.8(b)].
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

**5.410.2.2 Basis of Design (BOD).** [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

- \*1. Heating, ventilation, air conditioning (HVAC) systems and controls. (Refer to 2013 *California Energy Code*, Section 120.8(c)).
- \*2. Indoor lighting system and controls [Refer to 2013 *California Energy Code* Section 120.8(c)].
- \*3. Water heating system [Refer to 2013 *California Energy Code* Section 120.8(c)].
4. Renewable energy systems.
5. Landscape irrigation systems.
6. Water reuse systems.

**5.410.2.3 Commissioning plan.** [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
  - a. An explanation of the original design intent.
  - b. Equipment and systems to be tested, including the extent of tests.

## Appendix B

### Facility Photos

R3



# Facility Certification Photos

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## Asphalt Shingle Recyclers, LLC





# Facility Certification Photos

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## The Away Station



# Facility Certification Photos

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## Commercial Waste & Recycling, LLC





# Facility Certification Photos

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## Davis Street Transfer Station





# Facility Certification Photos

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## Devlin Road Recycling and Transfer Facility



# Facility Certification Photos

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Daniel O. Davis, Inc.





# Facility Certification Photos

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## Marin Resource Recovery Center



# Facility Certification Photos

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## Redwood Landfill and Recycling Center





# Facility Certification Photos

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## West Contra Costa Sanitary Landfill





# Facility Certification Photos

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## Windsor Material Recovery Facility



## Appendix C

### List of Certified Facilities and Sample Form

# Recommended Facility Certifications

## Mixed C&D Processing Facilities

- 1. Asphalt Shingle Recyclers, LLC**  
Joshua Fookes, Owner  
5900 Coliseum Way  
Oakland, CA 94621  
(510) 636-1166  
[joshfookes@gmail.com](mailto:joshfookes@gmail.com)
- 2. Commercial Waste & Recycling, LLC**  
Joshua Fookes, President  
725 Independent Road  
Oakland, CA 94621  
(510) 636-0852  
[joshfookes@gmail.com](mailto:joshfookes@gmail.com)
- 3. Davis Street Transfer Station**  
Rebecca Jewell  
Recycle Program Manager  
2615 Davis Street  
San Leandro, CA 94577  
(510) 563-4214  
[rjewell@wm.com](mailto:rjewell@wm.com)
- 4. Devlin Road Recycling and Transfer Facility**  
Steve Kelley, General Manager  
889 Devlin Road  
American Canyon, CA 94503  
(707) 256-3500 x1221  
[stevek@devlinroadrecycling.com](mailto:stevek@devlinroadrecycling.com)
- 5. Marin Resource Recovery Center**  
Nik Minton  
565 Jacoby St.  
San Rafael, CA 94901  
(415) 458-5646  
[Nicholas.minton@marinsanitary.com](mailto:Nicholas.minton@marinsanitary.com)
- 6. Redwood Landfill and Recycling Center**  
Ramin Khany, District Manager  
8950 Redwood Highway  
Novato, CA 94945  
(415) 408-9053  
[rkhany@wm.com](mailto:rkhany@wm.com)
- 7. West Contra Costa Sanitary Landfill**  
John Valles, Operation Manager  
1 Parr Boulevard  
Richmond, CA 94801  
(510) 970-7246  
[jvalles@republicservices.com](mailto:jvalles@republicservices.com)
- 8. Windsor Material Recovery Facility**  
Dustin Abbott, Vice President  
590 Caletti Avenue  
Windsor, CA 95492  
(707) 838-2597  
[dabbot@pacificsanitation.com](mailto:dabbot@pacificsanitation.com)

## Appendix C

### List of Recommended Facility Certifications

## Reuse Facilities

### 9. The Away Station

Carrie Bachelder  
109 Broadway Boulevard  
Fairfax, CA 94930  
(415) 453-4221  
[carrie@theawaystation.org](mailto:carrie@theawaystation.org)

### 10. Building Resources

Matthew Levesque  
701 Amador Street  
San Francisco, CA 94124  
(415) 285-7814  
[buildingresourcesf@gmail.com](mailto:buildingresourcesf@gmail.com)

### 11. Daniel O. Davis, Inc.

Dustin Davis  
1051 Todd Road  
Santa Rosa, CA 95407  
(707) 585-1903  
[dustin@davisdemolition.com](mailto:dustin@davisdemolition.com)

### 12. Heritage Salvage

Karen Helms  
1473 Petaluma Boulevard  
South  
Petaluma, CA 94952  
(707) 762-6277  
[Office@heritagesalvage.com](mailto:Office@heritagesalvage.com)

### 13. Urban Ore

Dan Knapp, Owner  
900 Murray Street, Berkeley  
CA 94710  
(510) 914-2701  
[Dr.ore@urbanore.us](mailto:Dr.ore@urbanore.us)

### 14. Marin Community Benefit Cooperative

William Callahan  
816 B. Street  
San Rafael, CA 94901  
(415) 454-9948  
[bill@ohias.org](mailto:bill@ohias.org)

# C&D Recycling Tracking Sheet

- C&D recycling is required for all loads of C&D materials.
- If using a Certified Facility, you must ask for your load to be sorted for recycling!
- Documentation is easy – just staple paper “weight tickets” from Certified Facilities to this form.
- Make it easy – just have your hauler or contractor show the scale house operator this form!

[illegible]

**IMPORTANT:** You must collect all weight tickets and staple them to this sheet to provide proof of recycling. Check your tickets at the facility to make sure each states that the load will be sorted as C&D. For example, your ticket may say “C&D MATERIAL” or “Construction Debris.” At the completion of your project, present this sheet and all weight tickets to your local enforcement agency.

**Congratulations! You prevented tons of material from being landfilled.  
Thank you for recycling!**



[insert  
city name  
here]



RECYCLING of construction and demolition (C&D) materials is REQUIRED!

## STEP 1

Complete this form  
and sign below.

## STEP 2

**Send C&D materials to a Certified Facility for recycling.**

Certified Facility operators must provide documentation that C&D materials were sorted for recycling.

### STEP 3

Collect weight tickets for each load. All C&D loads must be sorted recycled.

Check your weight ticket.  
Your ticket must state  
the load was sorted as  
C&D for recycling.

## ZERO WASTE MARIN + CALGREEN EXPECTATIONS FOR YOUR PROJECT:

- Consider reuse and deconstruction first. See **ZERO WASTE MARIN WEBSITE** for more details.
- Have your mixed C&D materials sorted by a Certified Facility and insist on having C&D materials sorted as C&D for recycling.
- Save documentation of recycling via weight tickets from Certified Facilities or other documentation using page 4 of this form and submit it to the City prior to final inspection.

I hereby certify under penalty of perjury that I will recycle C&D materials from my project via (select one):

- ☐ **EASY METHOD:** Use a Certified Facility to sort C&D materials for recycling (page 3) and you are done!
- ☐ **DETAILED METHOD:** Recycle C&D materials via deconstruction, reuse, and/or source separation, or calculate a maximum amount of waste from the project – requires completion of detailed information on the back (page 2) of this form and detailed tracking of weight tickets for all materials generated by your project.

X \_\_\_\_\_  
SIGNATURE DATE

[city name] | [dept. name] | [address] | [telephone] | [website]



DETAILED PROCESS: Deconstruction, Reuse, Source Separation

1. ATTENTION: Only use this form if you DID NOT select the EASY PROCESS on PAGE 1 of this form.

Project Name:	
Project Location:	
Building Permit #:	Project Sq. Ft.:
Contractor Name:	Telephone:
Owner Name:	Telephone:

2. Construction waste generated on this project for transport to a recycling facility will be: (check appropriate box)  
☐ Sorted on-site (source separated)    ☐ Deconstruction and/or reuse    ☐ Maximum disposal estimate per CALGreen
3. The method of waste tracking to be used on this project will be: (check one box)  
☐ Weight    ☐ Volume
4. Please identify construction and demolition waste materials that will be generated during the course of this project, and how they will be diverted (efficient usage, recycling, reuse on the project, or salvage for future use or sale).

Material	Diversion Method

5. The facility (or facilities) where the construction waste material will be taken is: (attach separate sheets for additional facilities)  
Name of Facility: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_
6. I hereby certify that this project will adhere to the following:
- a. Every effort will be made to use reuse and or recycling measures to reduce the amount of construction waste and other materials sent to landfills. Whenever possible, site-sorted debris boxes shall be used to segregate construction waste materials to maximize materials diversion.
  - b. All personnel that will be performing any work on the project site will receive and read a copy of the Construction Waste Management Plan (CWMP). Additionally, all personnel shall be instructed on the location and proper use of debris boxes for disposal of C&D materials.
  - c. The process of waste management, recycling and reuse of construction waste materials will be monitored regularly to ensure compliance with the CWMP during the course of the project.
  - d. A record will be kept of the total amount of construction waste leaving the project site by weight or by volume, and how these materials will be disposed. This includes copies of tickets or detailed receipts from all loads of C&D materials removed from the project site.
  - e. All supporting documentation which demonstrates compliance with the CWMP will be provided to the [INSERT CITY NAME & DEPT. HERE] upon completion of the project.

X \_\_\_\_\_

SIGNATURE

\_\_\_\_\_

DATE



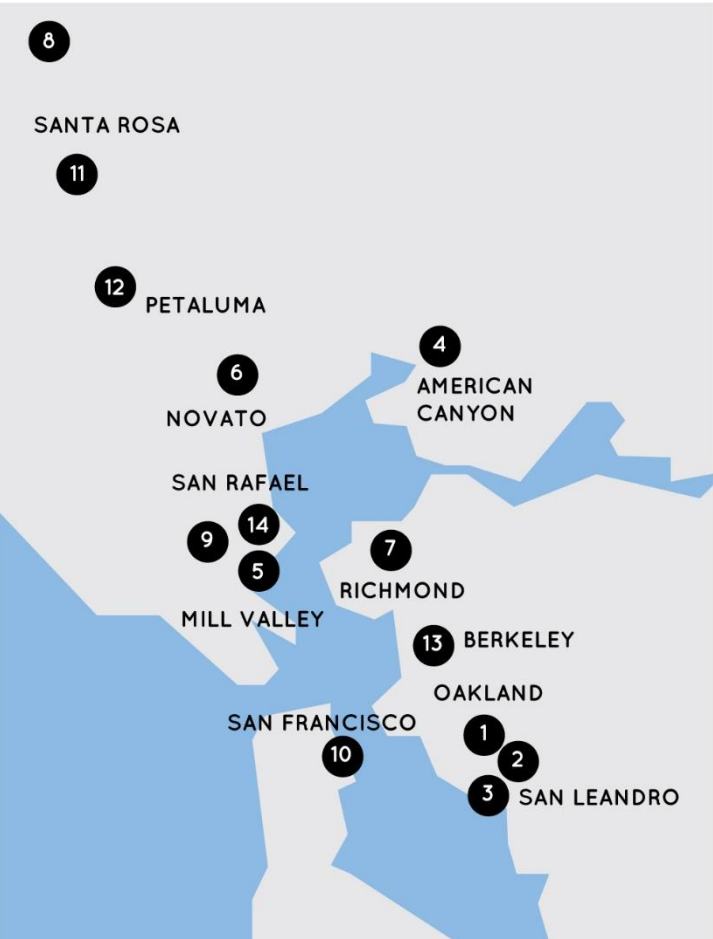
CERTIFIED FACILITIES LIST

Mixed C&D Processing Facilities

- 1 Asphalt Shingle Recyclers, LLC  
Joshua Fookes, Owner  
5900 Coliseum Way  
Oakland, CA 94621  
(510) 636-1166  
[joshfookes@gmail.com](mailto:joshfookes@gmail.com)
- 2 Commercial Waste & Recycling, LLC  
Joshua Fookes, President  
725 Independent Rd.  
Oakland, CA 94621  
(510) 636-0852  
[joshfookes@gmail.com](mailto:joshfookes@gmail.com)
- 3 Davis Street Transfer Station  
Rebecca Jewell, Recycle Program Manager  
2615 Davis St.  
San Leandro, CA 94577  
(510) 563-4214  
[rjewell@wm.com](mailto:rjewell@wm.com)
- 4 Devlin Road Recycling & Transfer Facility  
Steve Kelley, General Manager  
889 Devlin Rd.  
American Canyon, CA 94503  
(707) 256-3500 x1221  
[stevek@devlinroadrecycling.com](mailto:stevek@devlinroadrecycling.com)
- 5 Marin Resource Recovery Center  
Nik Minton  
565 Jacoby St.  
San Rafael, CA 94901  
(415) 458-5646  
[nicholas.minton@marin-sanitary.com](mailto:nicholas.minton@marin-sanitary.com)
- 6 Redwood Landfill & Recycling Center  
Ramin Khany, District Manager  
8950 Redwood Highway  
Novato, CA 94945  
(415) 408-9053  
[rkhany@wm.com](mailto:rkhany@wm.com)
- 7 West Contra Costa Sanitary Landfill  
John Valles, Operation Manager  
1 Parr Blvd.  
Richmond, CA 94801  
(510) 970-7246  
[jvalles@republicservices.com](mailto:jvalles@republicservices.com)
- 8 Windsor Material Recovery Facility  
Dustin Abbot, Vice President  
590 Caletti Ave.  
Windsor, CA 95492  
(707) 838-2597  
[dabbot@pacificsanitation.com](mailto:dabbot@pacificsanitation.com)

Reuse Facilities

- 9 The Away Station  
Carrie Bachelder  
109 Broadway Blvd.  
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(415) 453-4221  
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## Appendix D

### List of Member Agency Contacts

## Member Agency Contacts

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