

C&D Recycling CommitteeFebruary 27, 2015

Construction Material Management Ordinance



AGENDA

- Ordinance & Rules Development Status
- Qualified Processors
 - + C&D Haulers
 - + Project Diversion Report





1. Affected Projects

Ordinance Intent:

Covered Projects	Initial	2020
 New or Renovation (sq ft) 	5,000	1,000
 Commercial Demolition 	All	All
 Residential Demolition 	None	All

Status:

- Law, PDRD, & ARR developing draft LDC language
- PDRD to invite feedback from stakeholders





2. Project Requirements

Ordinance Intent:

Performance Measures	Initial	2020	2030				
 Disposal Rate (lbs/sq ft) 	< 2.5	< 1.5	< 0.5				
 Diversion Rate 	50%	75%	95%				
2 Project C&D Diversion Penert							

2.3 Project C&D Diversion Report

Status:

- Law, PDRD, & ARR developing draft LDC language
- PDRD to invite feedback from stakeholders





3. Licensed C&D Haulers

Ordinance Intent:

Report separately

- Tons of C&D material hauled
- Tons of other materials hauled

Status:

Staff developing draft amendments to 15-6 Code and Rules





5. Penalties

Ordinance Intent:

Affected projects pay performance-based penalty

Status:

- Law Department analyzing options
- Follows development of other amendments





4. Qualified C&D Processors

Ordinance Intent:

- Permits and reporting requirements
- Semi-annual diversion rate report
- Minimum diversion rate
- City-approved 3rd party certification

Process:

- ARR shares research with C&D Committee
- ARR will interview processors & facilitates public discussion
- COA will staff draft Code and Rule amendments for future discussion





Qualified C&D Processors

15-6 SWS Code

- Qualified Processor permits
- Reporting requirements
- Qualified Processor diversion rate

Administrative Rules

- Qualified Processor criteria
- Application & renewal
- Recordkeeping & reporting
- Evaluating entity





Qualified C&D Processors

Reduce costs while validating diversion

Contractors & Processors

Track and report diversion for entire processing operation rather than by each load

City

Registration, audit and inspection of processing operation rather than review each project's report





Construction Scenario

- 1. Contractor checks box on Permit Application indicating project is subject to the recycling requirements
- 2. At preconstruction conference, City gives Contractor pamphlet on C&D recycling requirements and resources
- 3. Contractor contracts with licensed C&D Haulers to remove mixed or sorted C&D debris during construction
- 4. C&D Haulers report material types, weights, destinations (landfill, end-user, processor, etc.) to Contractor
- 5. After project completion, Contractor or (C&D Hauler) submits C&D recycling report to City





2.3. Project C&D Diversion Report

Project C&D Diversion Rate =

Diversion

(Diversion + Disposal)

Diversion:

- Onsite beneficial use
- Delivered directly to end-users
- Diverted by:
 - Qualified Processor
 - Other processors
 - Subcontractors

Disposal:

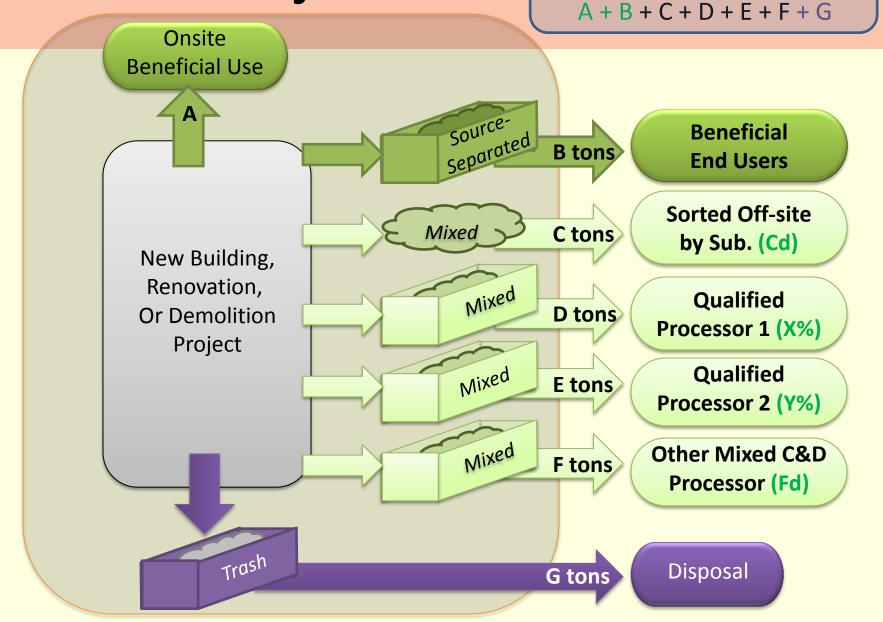
- Disposed onsite
- Delivered to landfill directly
- Disposed by:
 - Qualified Processor
 - Other processors
 - Subcontractors





Affected Project

Project Diversion Rate = A + B + Cd + D(X%) + E(Y%) + Fd



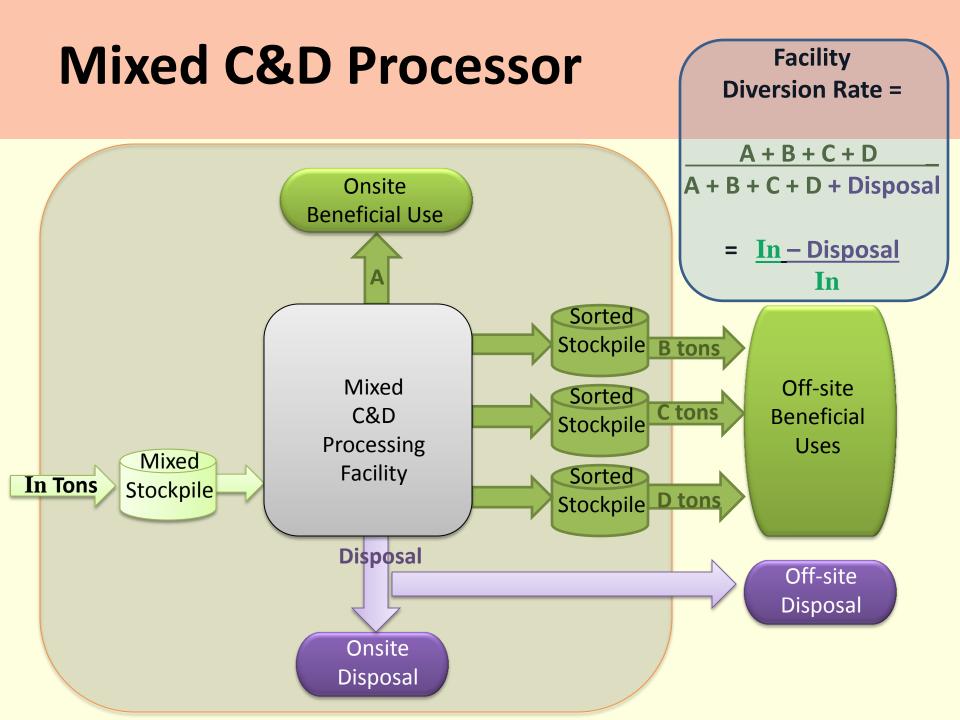
2.3. Project C&D Diversion Report

Example Summary Report with Multiple Destination Types

Start Date	End Date	Destination	Diversion Rate	Weight	Diverted Weight
		Onsite Use	100%	А	А
		End-User	100%	В	В
		Sub Contractor	-	С	Cd
		Qualified Proc. 1	X %	D	D * X %
		Qualified Proc. 2	Y %	E	E * Y %
		Other Processor	-	F	Fd
		Disposal	0%	G	None
		Pro	ject Totals	Total	Diverted
		Project Dive	Diverted	l / Total	







Qualified C&D Processors

Certify all or part of a facility:

- a. Commingled (mixed) processing lines
- b. Source-separated processing operations
- c. Select processing lines
- d. Entire processing facility
- e. Transfer operation





Qualified C&D Processors

Certification Criteria

- 1. Permits, Authorizations
- 2. Minimum Facility Diversion Rate
- Diversion Rate Validation

Application & Renewal

- Process
- Recordkeeping, Reporting, & Monitoring

Evaluating Entity





Qualified C&D Processor Criteria

1. Permits, Authorizations

- TCEQ Solid Waste authorization
- Storm water management
 - TPDES
 - Watershed Protection Dept.
- Land use (zoning)
- Fire protection





Qualified C&D Processor Criteria2. Minimum Facility Diversion Rate

Minimum Facility Diversion Rate options:

- a. Equal to Project Diversion Rate
- b. Less than Project Diversion Rate
- c. No minimum





San Diego C&D Facilities Historical Diversion Rates

	CERTIFIED	D MIXED C&D PROCESSING FACILITIES			CERTIFIED MIXED C&D TRANSFER STATIONS					
Effective Date	SANCO Recovery Facility	EDCO CDI Recycling San Marcos	Waste Management Inc.	Otay CDI Processing Facility	EDCO Recovery & Transfer Station	EDCO Station La Mesa	Escondido Resource Recovery	Ramona Transfer Station	Fallbrook Refuse Service	
7/1/2008	57%	72%			57%	57%	57%	57%		
9/4/2008	56%	66%			56%	56%	56%	56%		
11/21/2008	66%	64%			66%	66%	66%	66%	66%	
2/11/2009	63%	73%			63%	63%	63%	63%	63%	
6/19/2009	67%	74%			67%	67%	67%	67%	67%	
6/30/2009	67%	74%	50%		67%	67%	67%	67%	67%	
8/5/2009	67%	71%	60%		67%	67%	67%	67%	67%	
1/1/2014	67%	85%	Closed	67%	67%	67%	67%	67%	67%	
4/1/2014	66%	88%	Closed	65%	66%	66%	66%	66%	66%	
7/1/2014	65%	88%	Closed	66%	65%	65%	65%	65%	65%	









Facility Directory







2014 Certified Construction & Demolition Recycling Facility Directory



These facilities are certified by the City of San Diego to accept materials listed in each category. Hazardous materials are not accepted. The diversion rate for these materials shall be considered 100%, except mixed C&D debris which updates quarterly. The City is not responsible for changes in facility information. Please call alread to commit details such as accepted materials, days and hours of operation, limitations on vehicle types, and cost. For more information visit: www.recyclingworks.com.

Please note: In order to receive recycling credit, Mixed C&D Facility and transfer station receipts must: -be coded as construction & demolition (C&D) debris -have project address or permit number on receipt *Make sure to notify weighmaster that your load is subject to the City of San Diego C&D Ordinance. Note about landfills: Miramar Landfill and other landfills do not recycle mixed C&D debris.	Mixed C&D Debris	Asphalt /Concrete	Brick/Block/Rock	Building Materials for Reuse	Cardboard	Carpet	Carpet Padding	Ceiling Tile	Ceramic Tile / Porcelain	Clean Fill Dirt	Clean Wood / Green Waste	Drywall	Industrial Plastics	Lamps / Light Fixtures	Metal	Mixed Inerts	Styrofoam Blocks
EDCO Recovery & Transfer 3660 Dalbergia St, San Diego, CA 92113 619-234-7774 www.edcodisposal.com/public-disposal	65%											•					
EDCO Station Transfer Station & Buy Back Center 8184 Commercial St, La Mesa, CA 91942 619-466-3355 www.edcodisposal.com/public-disposal	65%				•							•			•		
EDCO CDI Recycling & Buy Back Center 224 S. Las Posas Rd, San Marcos, CA 92078 760-744-2700 www.edcodisposal.com/public-disposal	88%				•										•		
Escondido Resource Recovery 1044 W. Washington Ave, Escondido 760-745-3203 www.edcodisposal.com/public-disposal	65%																
Fallbrook Transfer Station & Buy Back Center 550 W. Aviation Rd, Fallbrook, CA 92028 760-728-6114 www.edcodisposal.com/public-disposal	65%				•										•		
Otay C&D/Inert Debris Processing Facility 1700 Maxwell Rd, Chula Vista, CA 91913 619-421-3773 www.sd.disposal.com	66%																
Ramona Transfer Station & Buy Back Center 324 Maple St, Ramona, CA 92065 760-789-0516 www.edcodisposal.com/public-disposal	65%				•										•		
SANCO Resource Recovery & Buy Back Center 6750 Federal Blvd, Lemon Grove, CA 91945 619-287-5696 www.edcodisposal.com/public-disposal	65%				•										•		
All American Recycling 10805 Kenney St, Santee, CA 92071 619-508-1155 (Must call for appointment)						•											
Allan Company 6733 Consolidated Wy, San Diego, CA 92121 858-578-9300 www.allancompany.com/facilities.htm					•										•		

Example RCI-Certified Facility

Zanker Road Resource Management

675 Los Esteros Road San Jose, CA 95134 www.zankerrecycling.com



	12-mo Recyclin	g Rate Average
PROCESS/LINE	W/ADC	WO/ADC
Demolition Processing Operation	82.3%	82.3%
C&D Recycling	77.7%	65.1%
Wood Waste / Yard Waste Recycling	99.3%	99.3%
Shingle Recycling	86.5%	28.3%
Concrete Recycling Facility	99.1%	98.7%
Sheetrock Recycling	84.5%	82.2%





Seattle "Qualified" Mixed Recyclers

Seattle "Qualified" Mixed Waste Recyclers and Disposal Facilities									
published 4/23/2014 -updated at least quarterly									
FACILITIES	Seattle Certified 2014	Regulatory Compliant	Reporting Compliant	Residual Compilan	Recycle %	Beneficial Use %	Landfill*		
MIXED WASTE RECYCLERS				TBD 2nd Quarter 2014	1st Quarter 2014 data**				
Black River Transfer Station - Republic 501 Monster Road SW, Renton - (425) 235-0269	Yes	Yes	Yes	TBD	14%	37%	49%		
Busy Beaver 101 East Marine View Drive, Everett - (425) 339-0117	No	No	No	TBD	data not available				
CDL Recycle 7201 E. Marginal Way S. Seattle - (206) 763-2002	Yes	Yes	Yes	TBD	44%	44%	12%		
Recovery 1, Inc. 1805 Stewart Street, Tacoma - (253) 627-1180	Yes	Yes	Yes	TBD	19%	55%	26%		
United Recycling & Container 18827 Yew Way, Snohomish - (425) 485-0355	TBD	Yes	TBD	TBD	TBD without soils TBD				
SOLID WASTE TRANSFER STATIONS					Nec	ed to inform	customers if		
City of Seattle North Transfer Station 1350 N 34th Street, Seattle									
City of Seattle South Transfer Station 130 South Kenyon Street, Seattle (206) 684-3000	Not Applicable	Yes	Yes	Not Applicable					
Third & Lander Transfer Station - Republic 2733 3rd AVE S. Seattle - (206) 332-7700	Not Applicable	Yes	Yes	Not Applicable	transloads some tons to Black River for recycling				
Waste Management Eastmont Transfer Station 7201 W Marginal Way SW, Seattle (866) 962-9253	Not Applicable	Yes	Yes	Not Applicable	transloads some tons to CDL Recycle for recycling				

Notes

Landfill Includes direct disposal, Alternative Daily Cover (ADC) and Industrial Waste Stabilzer (IWS)
 Certified Facilities Status for 2014 - TBD (To Be Determined), Yes, No
 Recycle % - does not include soils

Beneficial Use % - pertains to clean wood sent to energy recovery end markets

** for Black River the % of recycling, beneficial use and landfill disposal is based on the amount delivered for recycling - the facility also re

Mixed Waste Recyclers Certification includes:

- 1) solid waste handling permit from local Health Department
- 2) compliance with local flow control requirements
- 3) submitting monthly reports to City of Seattle on material inflows and outflows
- 4) residual sampling meets standards for Seattle's landfill disposal bans on targeted construction materials



Qualified C&D Processor Criteria3. Diversion Rate Validation

- Processing capability
- Meet end-user specs
- Beneficial end-markets
- Diversion rate measurement
 - Material management
 - Recordkeeping





Qualified C&D Processors Application & Renewal Process

EXAMPLE: San Francisco

Application

- Tonnage summary
- Signature confirming meeting criteria





San Francisco Registered Facility Application

Reporting Period:	From:	 (mo/yr	To:		(mo/yr)		
	INCOMING			<u>OUTGOIN</u>	G TONS		
Material Type	Total Tons RECEIVED	Reuse	Recycling Markets	Composting	ADC	Bio-Mass Conversion	Disposal
EXAMPLE: Wood	100	5	20	5		45	25
MIXED C&D DEBRIS	A			DO NOT USE	THIS AREA-		
	SOURCE- SEPARATED MATERIALS						
Wood	n						
Metal	0						
Drywall	p						
Green Waste	q						
Asphalt	r						
Brick	S						
Concrete	t						
Rock/Stone/Soil	u						
Screen Fines	ν						
Cardboard	w						
Carpet	X						
Plastic	у						
Other:	Z						
Total Source-Separated (total "n" through "z")	G						
TOTALS		В	C	D	E	F	

San Francisco Registered Facility Application

Environment Code Chapter 14, and SFE Rerate of 65% on a monthly basis and issuing including quantity of material, name of factors.	ERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA
Signature	Date
Print Name	Title





Qualified C&D Processors Application & Renewal Process

EXAMPLE: San Diego, San Jose

- a. Review permits and compliance
- b. Onsite operations inspection
 - Processing capability
 - Meet end-user specs
- c. Onsite recordkeeping review
 - Material flow tracking
 - Diversion rate measurement
 - Beneficial end-markets





Qualified C&D Processor Record Keeping, Reporting, Monitoring



- Project plan & report
- Processor reporting



- Processor reporting
- Certification



- URO Annual Diversion Plan
- US EPA "Challenges" reporting







- Developed for CalGreen & LEED C&D recycling
- Online data entry & reporting
- Contractors
 - Contractor or hauler enters load data
 - GH reports & calculates Project Diversion Rate
- Facilities
 - Facility enters incoming & outgoing load data
 - GH calculates Facility Diversion Rate







- For USGBC's LEED pilot credit MRpc87
- Uses Green Halo for data management
- Facilities
 - Facility enters incoming & outgoing load data
 - GH calculates Facility Diversion Rate
- RCI Evaluators
 - Inspect processing operations
 - Audits records





Qualified C&D Processors Evaluating Entity

Recycling Certification Institute

- Meets USGBC criteria for a certification org
- Developed standards and protocols per ISO
- Trains independent evaluators

Green Halo

- Data management integrity
- No onsite evaluation
- Third-party Criteria





A Rose by any other name ...

PALO ALTO APPROVED FACILITY LIST FOR C&D DEBRIS

Seattle "Qualified" Mixed Waste Recyclers and Disposal Facilities

City of San Diego Environmental Services Department
Certified Mixed C&D Processing Facilities

Licensed C&D Facilities

CITY OF LOS ANGELES CERTIFIED PROCESSOR





Qualified C&D Processors

What is the correct term?

Fill in the blank: _____ Processor

- a. Qualified officially recognized as able to perform a particular job
- **b.** Certified recognized as meeting a standard
- **c. Registered** recorded or enrolled officially
- **d.** Licensed given permission
- e. Approved officially agreed as acceptable or satisfactory





Next Steps

- Interview local processors
- Invite stakeholder input on draft Qualified Processor
 - Criteria
 - Application process
 - 3rd party evaluation
- Report to C&D Committee



































