

SWAC C&D Subcommittee Meeting

MassDEP Bureau of Air & Waste

December 10, 2015: 10:00 AM - 12:00 PM

One Winter Street, Boston

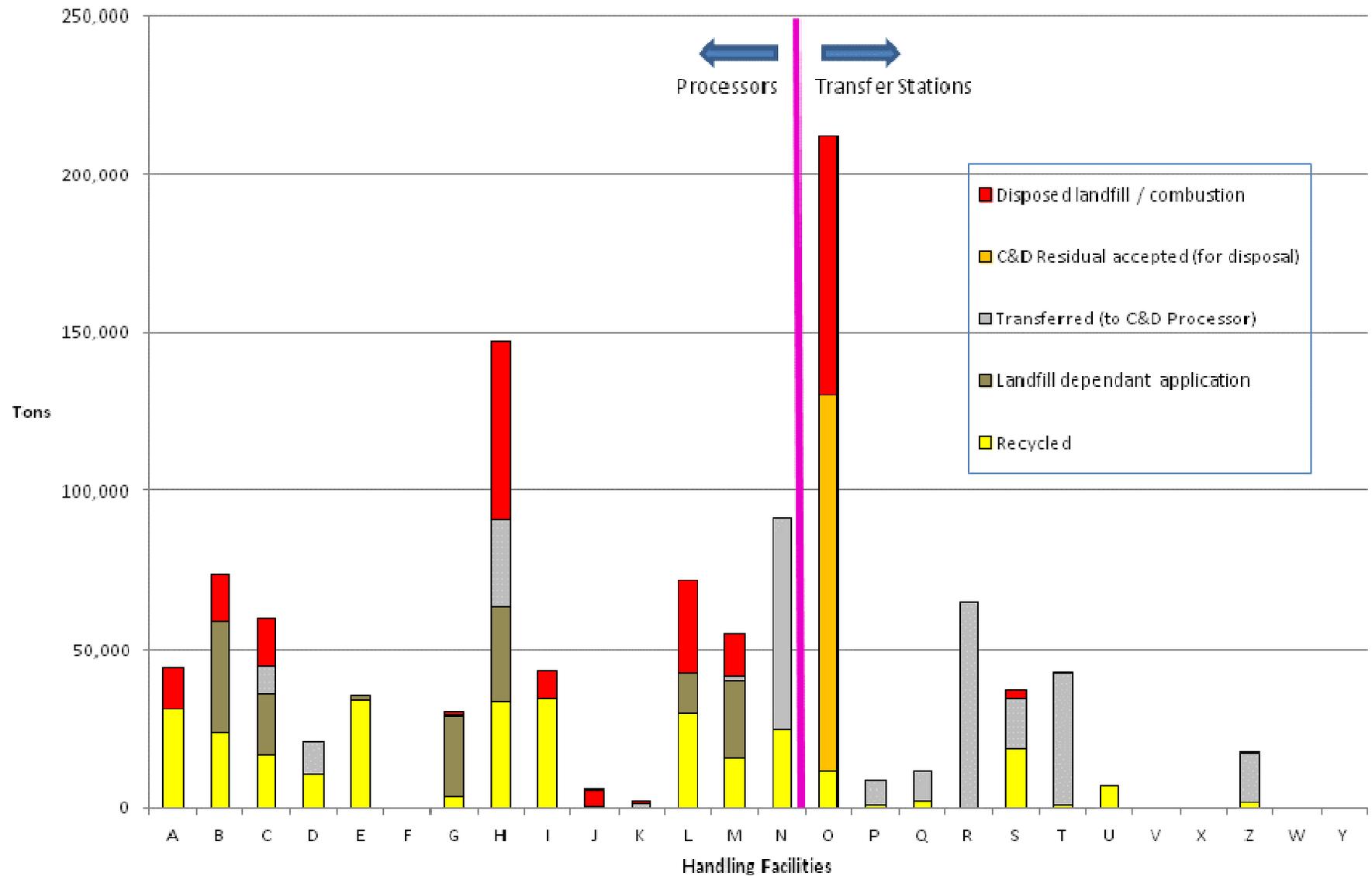


Agenda

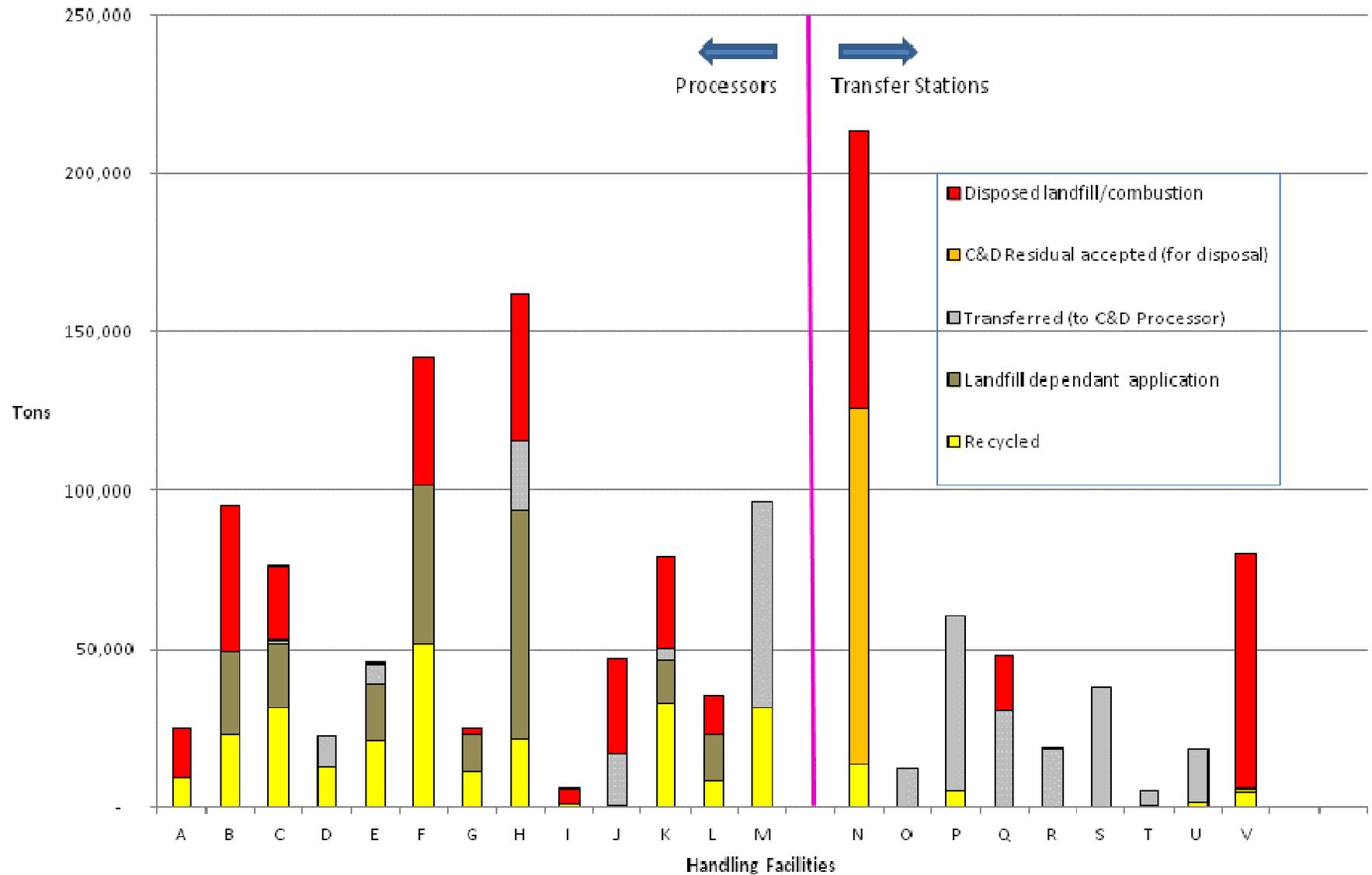
- **Welcome/Introductions** (MassDEP – 5 min.)
- **Review of 2013 and 2014 Annual C&D Facility Report Summary Data** (MassDEP – 15 min.)
- **Annual C&D Facility Reporting Form Refresher** (MassDEP – 30 min.)
- **Announcements/Open Discussion** (All – 30 min.)
- **Closing/Next Steps** (MassDEP – 5 min.)

**2013 AND 2014
ANNUAL C&D FACILITY REPORT
SUMMARY DATA**

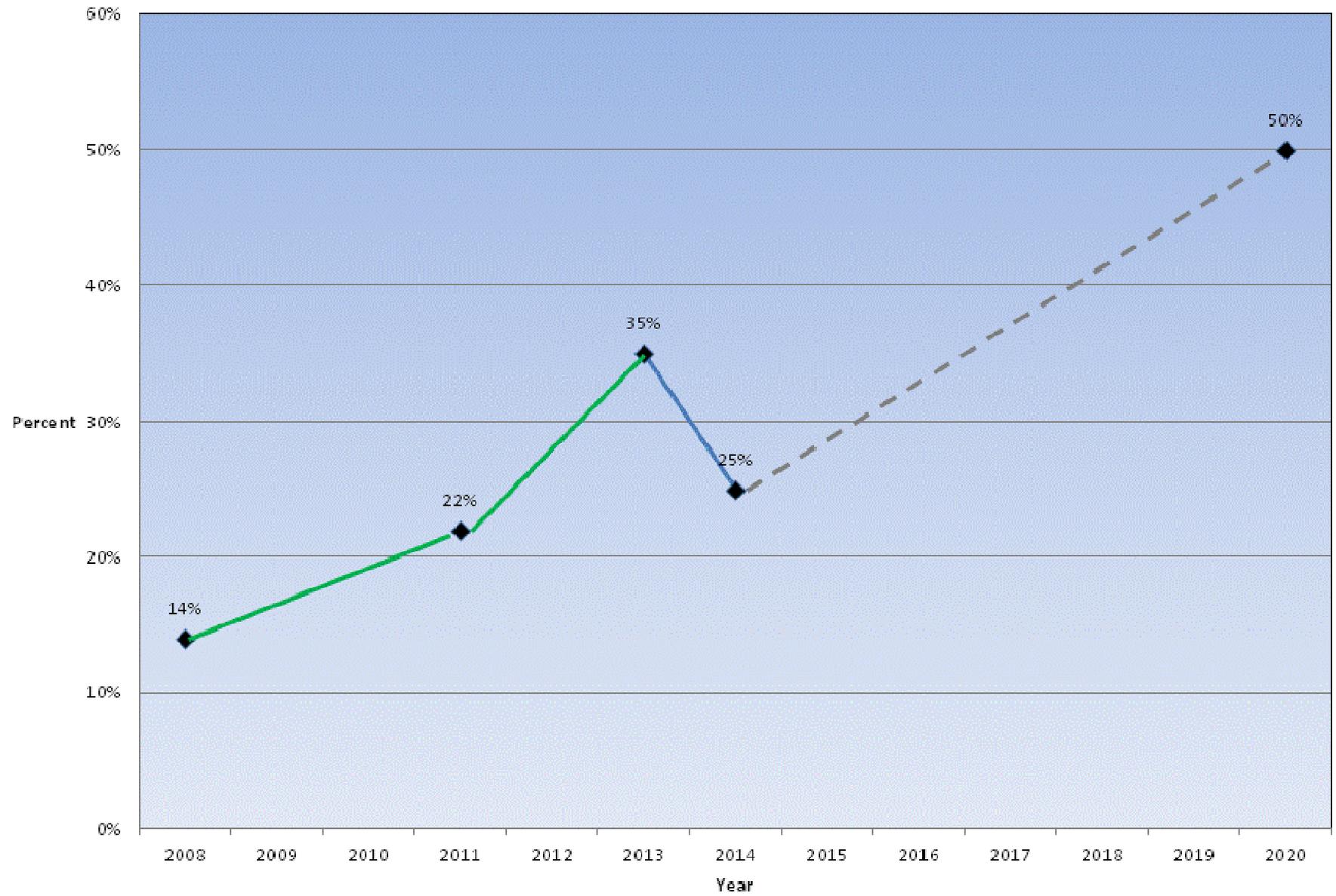
Massachusetts C&D Handling Facilities Annual Data 2013



Massachusetts C&D Handling Facilities Annual Data 2014



C&D Recycling Rate



ANNUAL C&D FACILITY REPORTING FORM REFRESHER

C&D Facility Forms on MassDEP website

The screenshot shows the Mass.gov website for the Construction & Demolition (C&D) Facility Form. The page is titled "Construction & Demolition (C&D) Facility Form" and includes a breadcrumb trail: "EEA Home > Agencies > MassDEP > Waste & Recycling > Permit & Reporting Forms > Construction & Demolition (C&D) Facility Form". The main content area features a list of links:

- [Construction & Demolition Facility Annual Reporting Form \(December 2014\)](#) (PDF icon) (Word icon)
Submission deadline is February 15 following the most recently completed calendar year.
- [Instructions for Construction & Demolition Facility Annual Reporting](#) (Word icon) (PDF icon)

A feedback form is located below the links, asking "Did you find the information you were looking for on this page?" with radio buttons for "Yes" and "No", and a "Send Feedback" button.

The footer of the page includes the copyright notice: "© 2015 Commonwealth of Massachusetts. Mass.Gov® is a registered service mark of the Commonwealth of Massachusetts." and links for "EEA Site Policies", "Contact EEA", "About EEA", and "Public Records Request".

<http://www.mass.gov/eea/agencies/massdep/recycle/approvals/construction-and-demolition-c-and-d-facility-form-december.html>

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Bureau of Waste Prevention

2014 Solid Waste Facility Report

Construction & Demolition Processor or Transfer Station

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. General Information

Please provide any necessary corrections or additions to the information below and then complete Sections B. through E. on the following pages.

1. Site Location

a. Site Name: _____
 b. Street: _____
 c. City/Town: _____ d. State: MA e. ZIP: _____
 f. Phone: _____

2. Reporting Contact

a. Organization Name: _____ b. Type: _____
 c. Street: _____
 d. City/Town: _____ e. State: _____ f. ZIP: _____
 g. Contact Person: _____
 h. Title: _____ i. Phone: _____ j. Email: _____

3. Certification

I hereby certify that I have personally examined and am familiar with the information contained in this document and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the information is true, accurate and complete. I am fully authorized to make this attestation on behalf of this facility and am aware that there are significant penalties for submitting false information, including possible fines and imprisonment.

a. Signature: _____ b. Date (MM/DD/YYYY): _____
 c. Print Name: _____ d. Phone: _____
 e. Title: _____ f. Organization Name: _____

4. Suggestions - comments or suggestions to improve this reporting form

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B. Facility Details

1. Operational Status - check one box only that best describes facility status during the calendar report year

<input type="checkbox"/>	Operated all of the report year.
<input type="checkbox"/>	Started accepting waste on date (MM/DD/YYYY): _____
<input type="checkbox"/>	Stopped accepting waste on date: _____, but maintains a valid operating permit.
<input type="checkbox"/>	Stopped accepting waste on date: _____, and no longer hold a valid operating permit.
<input type="checkbox"/>	Did not accept waste during the report year, but maintains a valid operating permit.*
<input type="checkbox"/>	Did not accept waste during the report year, and no longer hold a valid operating permit.*

* No further questions on this report form are applicable, return to Page 1 and sign the form.

2. Days of Operation - number of days the facility accepted materials during the calendar report year

Number of Days Open: _____

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C. C&D Operations

1. C&D Materials Accepted

Please record the tons of Materials Accepted by each Material Type for each State of Origin. Next, sum each Material Type into the TOTALS column, then sum that column into the Total Accepted box. For Material Type definitions refer to the Material/Waste Type Table on pages 3 - 5 in the accompanying "Instructions for Annual Solid Waste Facility Report - Construction and Demolition Processors and Transfer Stations".

- Round all amounts to the nearest ton. If any material type is less than 0.5 tons, do not include that material.
- No NOT include Municipal Solid Waste accepted in this table.
- Do NOT include any waste oil or household hazardous waste/products.
- If the state of origin is not listed or an additional state is needed, fill in the blank column or cross out a state in an unused column and fill in the other state.
- If the material type is not listed, use one of the "Other" lines and fill in the name of the material. If more "Other" lines are needed, cross out an unused material type and fill in the other material name.

Material Type	State of Origin								TOTALS
	MA	CT	ME	NH	NY	RI	VT		
Asphalt/Brck/Concrete									
C & D WASTE									
C & D WOOD									
C & D RESIDUALS									
ELECTRONICS/COMPUTERS									
GENERAL RECYCLABLES									
METALS									
TIRES									
WOOD WASTE- Clean Wood									
OTHER:									
OTHER:									
OTHER:									
OTHER:									
Total Accepted									

Material/Waste Types Definitions

- Asphalt, brick and concrete
- Asphalt Shingles
- Bulky Waste
- C&D Fines
- C&D Waste
- C&D Wood
- C&D Residuals
- Clean Gypsum Wallboard
- Metal

(From Instructions for C&D Facility Annual Reporting:

<http://www.mass.gov/eea/agencies/massdep/recycle/approvals/construction-and-demolition-c-and-d-facility-form-december.html>)

Wood

- “Clean Wood” means discarded material consisting of trees, stumps, and brush, including but not limited to sawdust, chips, shavings, bark, and new or used lumber.
 - Clean wood does not include:
 - Wood from comingled C&D Waste;
 - Engineered wood products; and
 - Wood containing or likely to contain:
 - Asbestos;
 - Chemical preservatives such as, but not limited to, chromated copper arsenate (CCA), creosote or pentachlorophenol; or
 - Paints, stains or other coating, or adhesives.

(Source: 310 CMR 19.006)

- “C&D Wood” is wood, or wood chips, derived from C&D Waste (as defined in “Instructions” for C&D Annual Facility Report).
- Eliminate the term “Wood Waste” from forms

General Recyclables

- C&D Processors should not normally be receiving loads of “General Recyclables”
 - Unless specifically allowed in WBCP
- This term is typically associated with MSW single-stream curbside recycling programs (e.g. bottles, cans, plastic containers, etc.)
- In the event that such materials show up in a load, the processed materials should be broken out by their component materials:
 - Metal
 - Glass
 - Paper
 - Cardboard
 - Plastic
 - Etc.
- Do not list processed materials on the report as “General Recyclables”. MassDEP plans to remove this term from the list of material types on the C&D reporting forms.

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Transferred Type	Type Name	Description
	Transfer	Shipped to another C&D processor or C&D transfer station

Only include material transferred for further processing, not disposal

3. C&D Materials Transferred

On the chart below, please complete all the columns. For each Material Type, list tonnage that was transferred and the location (including the City/Town and State) where the material was transferred. Use Transferred Type in the table above. For Material Type definitions refer to the Material/Waste Type Table on pages 3 - 5 in the accompanying "Instructions for Annual Solid Waste Facility Report - Construction and Demolition Processors and Transfer Stations". If Material was transferred to more than one location, list each location separately. Attach additional sheets if needed. Do NOT include MSW in this table.



Material Type	Tons	Transferred Type	Location/Destination Name	City/Town	State
Transferred Total					

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Disposal Types	Type Name	Description
	Landfilled	Disposed at a Landfill
	Combusted	Disposed at a solid waste combustion facility (do not include material used as fuel in Section C2 – Materials Recycled and Used)

4. C&D Materials Disposed

On the chart below, please complete all the columns. For each Material Type, list tonnage that was disposed and the location (including the City/Town and State) where the material was disposed. Use applicable disposal types listed in the table above. For Material Type definitions refer to the Material/Waste Type Table on pages 3 - 5 in the accompanying "Instructions for Annual Solid Waste Facility Report – Construction and Demolition Processors and Transfer Stations". If Material was disposed at more than one location, list each location separately. Attach additional sheets if needed. Do NOT include MSW in this table.

Material Type	Tons	Disposal Type	Location/Destination Name	City/Town	State
Disposed Total					

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D. Municipal Solid Waste (MSW) Operations

I. MSW Accepted

Please record the tons of Municipal Solid Waste Accepted for each State of Origin. Next, sum each Material Type into the TOTALS column, then sum that column into the Total Accepted box. For Material Type definitions refer to the Material/Waste Type Table on pages 3 - 5 in the accompanying "Instructions for Annual Solid Waste Facility Report - Construction and Demolition Processors and Transfer Stations".



- Round all amounts to the nearest ton. If any material type is less than 0.5 tons, do not include that material.
- Do NOT include C&D Materials Accepted in this table.
- Do NOT include any waste oil or household hazardous waste/products.
- If the state of origin is not listed or an additional state is needed, fill in the blank column or cross out a state in an unused column and fill in the other state.
- If the material type is not listed, use one of the "Other" lines and fill in the name of the material. If more "Other" lines are needed, cross out an unused material type and fill in the other material name.

Material Type	State of Origin							TOTALS
	MA	CT	ME	NH	NY	RI	VT	
MSW								
COMPOSTABLES/ORGANICS								
ELECTRONICS/COMPUTERS								
GENERAL RECYCLABLES								
METALS								
TIRES								
WOOD WASTE								
OTHER:								
OTHER:								
OTHER:								
OTHER:								
Total Accepted								

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2. MSW Diverted

Please record all municipal solid waste Diverted from disposal. List the names of all vendors for recycling/composting, material end-user(s) (including for Beneficial Use Determinations), and other transfer/processing/handling facilities. Record the tonnage (to the nearest ton) and material type handled by each vendor/end user. If a single vendor handles a number of common recyclables, like glass, cans and paper, then list that vendor once with the Material Type of "General Recyclables". Do NOT include C&D material in this table.



Material Type	Tons	Location/Destination Name	City/Town	State
Total Diverted				

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3. MSW Disposed

On the chart below, please complete all the columns. For each Material Type, list tonnage that was disposed and the location (including the City/Town and State) where the material was disposed. Use applicable disposal types listed in the table above. For Material Type definitions refer to the Material/Waste Type Table on pages 3 - 5 in the accompanying "Instructions for Annual Solid Waste Facility Report - Construction and Demolition Processors and Transfer Stations". If Material was disposed at more than one location, list each location separately. Attach additional sheets if needed. Do NOT include C&D Material in this table.



Material Type	Tons	Disposal Type	Location/Destination Name	City/Town	State
Disposed Total					

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4. Compare Totals

Line 1	Enter the amounts listed in the Total Accepted boxes on pages 3 and 7 (if applicable)	■
Line 2	Enter the amounts in the Total box under Materials Recycled/Reused on page 4 and total diverted on page 8 (if applicable)	■
Line 3	Enter the amount in the Total box under Materials Transferred on page 5	■
Line 4	Enter the amount in the Total box under Materials Disposed on page 6 and 9 (if applicable)	■
Line 5	Add Lines 2, 3 and 4	■
Line 6	Subtract Line 5 from Line 1, if the result is zero skip to part E	■
Line 7	Divide Line 6 by Line 1 and multiply by 100	■ %

If Line 7 is greater than 1% or less than -1%, explain the difference in the Discrepancy box below. Attach another sheet if needed.

Discrepancy Explanation: ■

Note:

- The “Compare Totals” table can be deceiving
- C&D and MSW material mass balances must tie independent of one another
 - C&D Material Accepted = Σ Transferred + Recycled/Used + Disposed
 - MSW Material Accepted = Σ Diverted + Disposed

Illustrative Hypothetical Example of Flawed Material Mass Balance

Anytown C&D Processing Facility		
Report Category	C&D	MSW
Accepted	100	100
Transferred	10	-
Handled	90	100
Recycled/Diverted	25	10
Re-used in LDA	15	-
Disposed	5	135
Discrepancy	-45	45
Note: All quantities reported in tons		

- Failure to account for C&D and MSW as independent waste streams
- In example:
 - C&D disposed is under-reported by 45t
 - MSW disposed is over-reported by 45t
- If a load is accepted as C&D, the residual content cannot be disposed as MSW

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E. Waste Bans

 Please provide load counts (numbers, not text like 'all') based on Waste Ban compliance activities. For the number of loads failing by material type, enter the number of failed loads, not the count of items or percent of the loads. For example, two failed loads for CRTs where one load has 5 CRTs and one load has 3 CRTs should be entered as 2 loads, not 8 CRTs.

1. Monitoring and Inspections

	Comprehensive Inspections	Ongoing Waste Stream Monitoring
Total Number of Loads Inspected		
Total Number of Loads Failing		
Number of Loads Failing Due to Quantities of Items Below		
Asphalt pavement, Brick and/or Concrete		
Clean Gypsum Wallboard		
CRTs		
Glass/Metal/Plastic Containers		
Lead Acid Batteries		
Leaves & Yard Waste		
Metal		
Recyclable Paper (except Comugated Cardboard)		
Comugated Cardboard		
White Goods		
Whole Tires		
Wood		
Mixed (more than one material)		

Report only waste ban materials (above action levels in load) that the facility does not normally process and separate as allowed by its facility specific WBCP

Other helpful tips

- Except for Waste Ban Section E, report all quantities in US tons (2000 lbs)
- If weights aren't available, use conversion factors to convert item counts to tons; for example:
 - Tires; Mattresses; Bulky items; etc.
- Report should reflect what's allowed by ATO, WBCP and any BUD approvals
- If uncertain how to fill out form, please call Boston office
- Revised CY2015 Forms will be available on MassDEP website by 12/31/2015 or shortly thereafter

ANNOUNCEMENTS/OPEN DISCUSSION

Announcements

- EBC-New England - Annual C&D Summit
January 28, 2016
Sheraton Framingham
Registration: <http://ebcne.org/calendar/>
- Annual C&D Facility Report for CY2015
Due: February 15, 2016
- Next MassDEP C&D Subcommittee Meeting
Ca. June 2016
 - Market implications of achieving LEED C&D waste recycling credits (Roundtable discussion)
 - Other initiatives?

CLOSING/NEXT STEPS

For More Information:

Points of Contact:

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