

# CT Solid Waste Management Advisory Committee

Plan Implementation  
begins:

Year-end review

November 27, 2007

# Concurrent Efforts

- Municipal Transfer Station General Permit (issuance is imminent)
- E-waste law P.A. 07-189 implementation
- Development of General Permit for Beneficial Use of Coal Combustion Products
- Development of General Permit for Beneficial Use of Soil and Sediment [Regulated Fill]
- Revisions to Clean Fill Definitions

# Solid Waste Data Use



- Solid waste projections and related planning and program evaluation- state, municipal, regional
  - Measurement of progress (statewide and municipal) towards meeting solid waste management goals
    - CGS -Goal to recycle/source reduce solid waste generated in each municipality by 40%; SWMP target 58% by FY2024
    - SWMP target to reduce Connecticut's per capita disposal rate from 0.8 tons/person/year in FY2005 to 0.6 tons/person/year by FY2024
  - Assessing effectiveness of specific recycling/source reduction efforts – on a state and municipal level

# Solid Waste Data Use (cont'd)

- Decisions regarding location in the state or region of solid waste or recycling facilities and manufacturing facilities looking for recycled feedstock
- Assurance of compliance with solid waste statutes, regulations, and permit requirements
- Calculation of environmental benefits associated with achieving increased source reduction and recycling – using environmental calculators such as – NERC, NRC, WARM

# Sampling of SW Data Reports Submitted to CT DEP



- Monthly: Tonnage Received by Type; City/Town or SW Facility of Origin.
- Monthly: Tonnage Transferred by Type & Destination
  - CT SW Disposal Facilities – LF's and RRF's (Quarterly)
  - CT SW Transfer Stations (Quarterly)
  - Recycling and Composting Facilities (Quarterly)
  - C&D Volume Reduction Facilities (Quarterly)
  - CT Tire Processors (Quarterly)
  - Municipal Recycling Report (Annually)
  - Scrap Metal Dealers (Annually)

# Data Management Subcommittee Discussions 2007



- Eliminate duplicative reporting by solid waste facilities and municipalities regarding amount of MSW disposed and recycled.
  - Eliminate the statutory requirement for solid waste facilities to report to each municipality
  - Amend Annual Municipal Recycling Report to eliminate the statutory requirement for municipalities to aggregate and report their tonnage of MSW disposed and recycled at reporting CT solid waste facilities

# Relevant SWMP SW Data Strategies



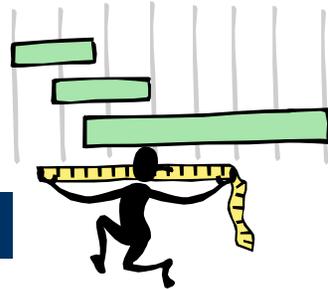
- Strategy 6-2
  - Minimize the reporting burden for municipalities and others by only requiring the collection of data necessary to support the goals of the Plan and provide the information needed for ongoing solid waste management planning and evaluation
- Strategy 7-7
  - CT DEP will establish a streamlined method of regulating waste haulers in order to incorporate reporting and other substantive requirements

# SW Data Management Subcommittee Potential Topics for Next Year



- Test out effectiveness of current proposed data reporting changes
- Explore additional changes to eliminate other duplicative reporting issues
- Start working with DEP, owners/operators of solid waste facilities, and municipalities on electronic reporting potential and posting of solid waste data on DEP website.

# SW Data Management Issues- Progress this year



- Identified recommended statutes and reg changes regarding duplicative reporting
- Identified some current reporting inaccuracies regarding town of origin of MSW and recyclables
- Designed a new draft annual municipal recycling report
- Sent a survey to solid waste facility owners or operators regarding how they report the origin of solid waste they receive at their facilities
- Sent a survey to haulers – regarding how they identify waste they deliver to CT solid waste facilities
- Will send out draft of amended reporting forms to municipalities within the next month

# Barriers to Streamlining SW Reporting



- Database data entry position not yet filled.
- Limited resources for database design changes.
- Lack legislative proposal for changes to reporting requirements.
- Solid waste facilities need to accurately collect and report town of origin of MSW and recyclables received.

# Barriers to Streamlining SW Reporting, continued

- Haulers must be given the opportunity and must accurately provide info re town or facility of origin for each load they deliver to a CT solid waste facility.
- Haulers must comply with state statute requirements to register in municipalities in which they operate, and must comply with any municipal requirements as well.
- Haulers will need to report to the municipalities (or to DEP) the destination and tonnage of any solid waste or recyclables they deliver directly (without passing through a permitted CT Solid Waste facility) to an out-of-state recycling facility or directly to an end market.

# Increasing Source Reduction and Recycling Rates

- At least 20 different stakeholders have participated in discussion of strategies.
- Guest speaker: Kristen Brown on unit-based pricing
- Overview of topics
  - Broad list of strategies in Solid Waste Management Plan
  - Focused this year only on a few

# Increasing Source Reduction & Recycling Rates -- Broad List of Strategies

- **1-1 Continue to implement the Pollution Prevention Plan.**
  - Status: ongoing
- **1-2 Educate consumers and businesses**
  - about the effects of purchasing choices; provide education and incentives to help change purchasing and behavioral practices to reduce the amount and toxicity of waste produced.
  - Status: future
- **1-3 Continue to support regional and national efforts**
  - to change manufacturer practices to produce products that generate less waste and less toxic waste.
  - Status: future, although currently developing regulations for electronics product stewardship may incentivize less waste.

# Increasing Source Reduction & Recycling Rates -- Broad List of Strategies

- **1-4 Continue to promote environmentally preferable purchasing (“EPP”);**
  - encourage state agencies and municipalities to join EPA’s WasteWise Program;
  - support green design standards and encourage adoption by local governments and institutions.
  - Status: future
- **1-5 Providing funding to promote reuse and publicize product reuse opportunities.**
  - Status: Actively looking for funding to link to material exchanges, reuse opportunities to disseminate more existing information via website
- **1-7 Seek partnerships and funding for model source reduction program.**
  - Status: need partners and funding.
- **1-8 Continue to enforce Toxics in Packaging Act.**
  - Status: Actively working in conjunction with Toxics in Packaging Clearinghouse and other member states on enforcement.

# Increasing Source Reduction & Recycling Rates—More broad list

- **2-1 Update beverage container deposit system by increasing deposit amount and expanding coverage to at least plastic water bottles.**
- **2-2 Add plastics PET #1 and HDPE #2 and magazines to list of state-mandated recyclables.**
  - Status: Evaluate revision of regulations when resources allow.
- **2-3 Support/Promote Environmentally Preferable Purchasing at CT DAS**
  - Status: Assessing statutes for effectiveness, possible future revision as resources allow.
- **2-6 Continue Municipal Recycling Honor Roll Awards Program.**
- **2-7 DEP, regional authorities, and hauling industry to identify incentives.**
  - Status Compliance education--haulers
  - Compliance education—targeted sectors;
  - Compliance education--haulers' customers

# Increasing Source Reduction & Recycling Rates—More broad list

- **2-8 Develop infrastructure for increasing amount of paper recycled.**
  - Status: currently prioritize permitting for recycling facilities
  - Future: seek DECD partnership to develop and promote investment in recycling industry.
- **2-9 Support continued recycling of non-mandated recyclables.**
  - Status: Assessing and revising beneficial use program: Revise beneficial use statutes in future years or sooner if proposed. Develop beneficial use regulations.
- **2-10 Facilitate development, expansion, and creation of markets for recycled materials.**
- **2-11 Build local, regional, state capacity.**
  - Status: Reviewing DECD plan;
  - First step: Identify DECD contact or program to focus on development of recycling industry.
- **2-12 Build partnerships.**
  - Status: Continue opportunities via SWMAC, NERC, CRC
  - Need to contact universities.
- **2-13 Designate Statewide Recycling Coordinator.**
  - Status: Assessing potential for funding.

# Increasing Source Reduction and Recycling Rates, 2007 focus

- **Promote implementation of effective unit-based pricing systems by municipalities and haulers.**
  - Strategy 1-6
  - SWMAC serving as educational forum
  - First step: identify spectrum of funding structures among municipalities and regions.
  
- **Identify incentives for municipalities and haulers to implement unit-based pricing systems.**
  - Strategy 2-4
  - SWMAC subcommittee:
  - First step: survey municipalities and haulers.

# Increasing Source Reduction and Recycling Rates, 2007 focus, continued

- **Increase technical assistance, education, enforcement**
  - Strategy **2-5**
  - Status: Redeveloping recycling program strategy
  - Subcommittee feedback:
    - Identifying trade organizations for compliance assistance
    - Target education for small businesses & schools
    - Target sectors for inspection and enforcement

# Increasing Source Reduction and Recycling Rates, 2007 focus, continued

- **Provide training and information to municipal officials, and local and regional waste management staff.**
  - Strategy 6-6
  - Status:
    - currently--SWMAC as scoping forum
    - future--Need to identify most effective means of conveying training and information.
    - Need to increase website as information source.

# Statutes and Regulation Reforms

- 16+ different stakeholders
- several DEP staff
- Lead change from Robert Isner to Gabrielle Frigon and Kevin Sullivan
- **2007 TOPICS**
  - Statutes and Regulation adoption process review
  - Tracked legislative session
    - e.g. SW hauler licensing
  - E-Waste recycling program updates -stakeholder meetings and regulation development, Tom Metzner, DEP

# Statutes and Regulation Reforms

## 2007 TOPICS (cont'd):

- Expanding mandatory recyclables
  - Plastics 1 & 2
  - Magazines and phone books
- DEP Enforcement, including facility tip-floors
- Permit streamlining, including beneficial use determinations
- Organics source reduction
- Source reduction
- Expansion of \$1.50 /T SW tipping fee to all wastes

# Statutes and Regulation Reforms

## 2007 TOPICS (cont'd):

- Siting Criteria for New Landfills
- Reporting Duplication
- Pay As You Throw – maybe the easiest way to get to 58% recycling goal
- Producer responsibility – evaluate products targeted by the Product Stewardship Institute (e.g. e-waste, tires, paint, carpet, etc.)
- Apply Existing CT Law – CGS already provides for DEP to adopt regulations to implement the SWMP and other goals

# Program Developments—

while not a product of the Subcommittee, here are some program developments DEP plans for near future

- General Permit for Beneficial Use of Regulated Fill [including Contaminated Soil and Contaminated Sediment] – public notice of intent to issue 2008
- GP for Commercial Recycling Facilities – begin 2008
- E-Waste Recycling staff hiring – 2008 (~ 2 staff for new program)
- Recycling staff hiring (one staff to replace loss from attrition, more later?)
- Building Materials Reuse and Recycling Outreach – 2008
- Comprehensive Solid Waste regulations revision – (~ 2010?? Staff and funding not yet identified)

# Recommended Statutory and Regulatory Changes – compiled from the leads of all of the Subcommittees.

- 1) Definitions for construction and demolition waste, oversized MSW, bulky waste, special waste, untreated wood waste, regulated wood fuel, land clearing debris, other.
- 2) Further restrictions for the banning of other solid wastes that are recyclable (i.e., clean wood).
- 3) Incorporating used construction materials into new construction projects.
- 4) Amendments to the solid waste reporting requirements related to duplicative reporting for solid waste facilities and municipalities.

# Recommended Statutory and Regulatory Changes – compiled from all of the Subcommittees (cont'd)

- 5) Haulers will continue to be required to register in the towns and cities in which they operate and haul solid waste and/or recyclables, but those haulers should also be required to provide municipalities with information regarding the destination to which they haul the solid waste or recyclables, and if they are hauling directly to a non-reporting facility-the haulers would need to report those tonnages as well.
- 6) Statutes should be amended to stipulate that if a hauler does not comply with registration and reporting requirements, that the town have the authority to ban the hauler from operating in the town.

# Recommended Statutory and Regulatory Changes – compiled from all of the Subcommittees (cont'd)

- 7) Fully authorize Commissioner to approve solid waste demonstration projects.
- 8) Provide property or sales tax exemption for businesses that recycle source separated food residuals.
- 9) Clarify Beneficial Use Determination authority and eliminate duplicative recycling/waste reporting.

# Organics Recycling--Recommendations

- **Use an SEP or other monies to fund distribution of home composting bins.**
  - Strategies 2-18 & 5-1
  - DEP supports this effort and will actively seek funding to provide a bin program.
- **Promote Food Banks as a source reduction strategy.**
  - Strategy 2-5
  - DEP supports this recommendation and will create a webpage.
- **Re-format the home composting, grasscycling, and windrow composting videos into digital format.**
  - Strategy 5-1
  - This has just been completed and all three programs have been placed on the website for free download.

# Organics Recycling--Recommendations

- **Establish a statewide on-line materials exchange, and encourage CT compost facilities to register on [www.findacomposter.com](http://www.findacomposter.com).**
  - Strategies 2-16 & 2-17
  - The Department supports this recommendation and is exploring options. Any effort will include organics.
- **Request that DEP develop a written policy that gives organics recycling facilities priority in the permitting process.**
  - Strategies 2-14 & 7-1
  - DEP supports this recommendation and expects to write such a policy in the first quarter of 2008.

# Organics Recycling--Recommendations

- **Request that organics be included in the RFP for the solid waste characterization study that the DEP intends to undertake. Data should include:**
  - % organics disposed at/by specific disposal facilities and/or generators;
  - % organics disposed by generator type, and
  - % disposed of organic waste type.
  - Strategy 6-7
  - The Department agrees with this recommendation and will include the subcommittee(s) in the RFP process.

# Construction & Demolition

- 10 different stakeholders and 3 DEP staff
- Two tours:
  - ReConnstruction Center & a C&D Volume Reduction Facility.
- Visited the Statutes & Regulations Reform and the Organic Recycling and Composting subcommittees
  - to learn about the Regulation Process and
  - the proposed Biomass facilities, which may burn some construction wood.

# Construction & Demolition, continued

- Future Waste Characterization Study: NEWMOA regional study will:
  - Obtain the most recent data available from states (2006) on C&D generation, processing, disposal, out-of-state shipment, and reuse/recycling
  - Analyze the available state data and contact key processors and/or disposers to fill-in data gaps and provide perspective on market conditions
  - Develop tables and graphs to illustrate current C&D waste management in the region
  - Identify opportunities for and barriers to greater reuse/recycling

# Construction & Demolition

## Recommendations

- Request minor changes to the CGS to promote Beneficial Use, by allowing DEP authority to issue individual Beneficial Use Determinations (BUDs).
  - Strategies 2-5, 4-5, 7-4
- Promote Swap Shops/Material Exchanges/ReStores as a source reduction strategy and link or add these alternatives to DEP Website.
  - Strategies 1-2, 1-5, 2-5, 4-1, 5-1

# Construction & Demolition

## Recommendations, continued

- Develop a written DEP policy that gives C&D recycling facilities priority in the permitting process.
  - Strategies 7-1 & 7-6
- Promote C&D waste reduction strategies by builders, developers, demolition companies and other generators of C&D waste.
  - Strategies 1-2, 3-4, 4-1, 6-6

# Construction & Demolition Recommendations, continued

- Increase the current \$1.50/ton tipping fee on MSW and extend the fee to the portion of the C&D that is disposed of either in-State or out-of-State to encourage recycling and source reduction.
  - Strategies 6-1 & 8-1

# Construction & Demolition Recommendations, continued

- Improve markets for products manufactured from recycling or beneficial use of C&D.
  - Strategy 3-5
- Evaluate the use of clean construction wood as a fuel source for future Biomass facilities.
  - Strategies 7-10 & 7-15