

Maximizing Your Waste Management Actions

Gary Sondermeyer
Vice President of Operations
Bayshore Recycling Corp.
Waste Management Action Leader
gsondermeyer@bayshorerecycling.com

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Waste Management Action Area

- In 2013 there were 13 Waste Management Actions
 - 7 Recycling and 6 Waste Reduction
- Historically the actions have been very logical and specific
- Just added 5 New Actions January 2014:
 - Allow for flexibility both in recycling activities and submission requirements
 - Example: Submission requirements include either adopted ordinance, or no ordinance in place but recycling still occurs



Webinar Overview

- Why waste management actions are important
- Value of source reduction and recycling
- Current status of recycling in NJ
- Review of 18 actions will cover:
 - Why they are important?
 - What to do and how to do it?
 - Submission requirements
 - Point Value
- How to maximize your submissions to earn the most points, and how to utilize county resources
- What's on the horizon



Why Is This This Action Area Important?

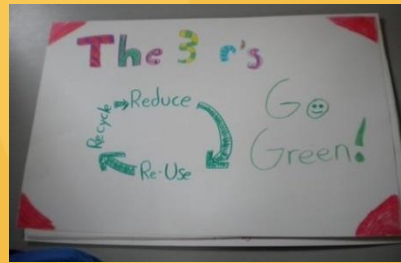
- Legacy of Past Environmental Problems Resulting From Improper Solid Waste Management:
 - 630 “Dumps” Across the State;
 - Poorly Sited Next to Water Bodies in “Marginal Lands;”
 - Landfilling of Hazardous Waste, Sludge, Septage, Medical Waste, Radiological Materials, etc.
 - Leachate Impacts to Ground & Surface Waters;
 - Methane Gas Explosions and Air Emissions (20X GHG Multiplier)
 - Vast “Waste” of Valuable Land Resources;
 - Uncontrolled Incineration & Associated Air Pollution;
 - Initial Over Dependence on “Engineering Solutions”



Value of Source Reduction & Recycling

- Front End Management Focus With The “3-R’s”

- Reduce
- Reuse
- Recycle



- Preserves Landfill Space/Cost of New Facilities.
- Recycling 1.5 Million Tons of Paper is Equivalent to Taking 580,000 Cars Off The Road!
- USEPA Estimates That 1.67 Metric Tons of Carbon Dioxide Equivalents Are Avoided/Ton of Recycling.
- Better Economics Compared to Disposal.

Current Status of Recycling in NJ

- Recycling Mandatory for Past 26 Years;
- State Goal in 1993 to Recycle 50% of the Municipal Waste Stream and 60% of the Total Waste Stream;
- Average Number of Mandated Materials = 15;
- 22 Million Tons of Solid Waste Generated Each Year;
- 13.3 Million Tons is Recycled Total = 60.5% Rate;
- Current Municipal Recycling Rate = 40%;
- Need Focus on “What’s Left in the Garbage Can” Toward Achieving Statewide Goals!



Overview of “Historic” Waste Reduction & Recycling Actions



Historic Waste Reduction Actions

1. Waste Audit of Municipal Building or School
2. Adopt A Pay As You Throw Program
3. Adopt A Grass – Cut It And Leave It Program
4. Adopt A Backyard Composting Program
5. Implement A Materials Reuse Program
6. Become A Waste Wi\$e Partner



Waste Audit of Municipal Building or School

- **Why is it Important?**

- A waste audit is the 1st step in setting up a Waste Reduction and Recycling program for any municipal or school facility. It establishes what types of waste are being generated and in what quantities, making it possible to target specific materials and operating practices for Reduction and Recycling.

- **What to Do and How to Do It**

- The waste audit must take place in a municipal building or school with the highest population of employees or students, or in the largest building to be representative.
- The audit report must indicate the current recycling rate and identify a list of recycling and waste reduction actions to be implemented.

- **Submission Requirements**

- A copy of the final Waste Audit Report
- Short narrative (300 words) to indicate the current recycling rate and identify a list of recycling and waste reduction actions to be implemented along with a schedule.



- **Point Value: 10 points**



Adopt A Pay As You Throw Program

- **Why is it Important?**

- In Pay As You Throw Programs (also known as per container systems, unit pricing, or variable-rate pricing), residents are charged for trash collection depending on the amount of garbage that they throw away. This system encourages residents to reduce the amount of waste that they generate and to separate recyclables more carefully.

- **What to Do and How to Do It**

- You must have implemented an active Pay As You Throw program before or within the year in which you are applying for certification.
- Adopt a rate structure that results in an economic incentive and encourages participation
- Create educational/promotional materials to inform participants.

- **Submission Requirements**

- Copy of your Pay As You Throw Ordinance or implementation document.
- Copies of all educational and promotional materials distributed to the public.

- **Point Value: 10 points**



Adopt a Grass Cut It And Leave It Program

- **Why is it Important?**

- “Grass – Cut It and Leave It” educational programs encourage residents to leave grass clippings on the lawn when they mow, since grass clippings provide a natural and healthy fertilizer for a growing lawn.

- **What to Do and How to Do It**

- Develop educational information and promote it to residents and landscapers from within 18 months of the submission for certification.
- Educational materials should include the benefits to leaving grass clippings on the lawn, how it's done and why that should not be a problem.

- **Submission Requirements**

- Copies of all education information used to promote the program, who it was distributed to and when. Also include how follow-up promotion will be handled.

- **Point Value: 10 points**



Adopt a Backyard Composting Program

- **Why is it Important?**

- Municipal waste will be reduced as food scraps and yard trimmings are disposed of through backyard composting piles. Municipalities may opt to provide backyard composting bins as well as education to interested residents

- **What to Do and How to Do It**

- You must demonstrate that your Backyard Composting Program was operational from within 18 months of the submission for certification.
- Establish a program that includes workshops or other strategies to enable community members to implement backyard composting and promote the program to the public.

- **Submission Requirements**

- Identify what your municipality did to promote backyard composting.
- Identify and illustrate how the Backyard Composting Program was promoted. Submit sample promotional materials developed and used to advertise the program.
- Estimate the number of people participating in the Program.

- **Point Value: 5 points**



Implement a Materials Reuse Program

- **Why is it Important?**
 - A Materials Reuse Program is one way a municipality can connect residents wanting to discard unwanted items with those looking for used items in good condition. This reduces waste sent to landfills and incinerators.
- **What to Do and How to Do It**
 - You must demonstrate an ongoing Materials Reuse Program was operational from within 18 months of the submission for certification.
 - Describe what your municipality did to encourage your residents to reuse.
 - Identify and illustrate how the Materials Reuse program was promoted.
- **Submission Requirements**
 - Short narrative (300 words) to summarize what was accomplished and steps taken to implement the materials reuse program
 - Submit sample promotional materials developed and used to promote the program
 - Estimate the number of people participating and the tons reduced.
- **Point Value:** 10 points



Become a Waste Wi\$e Partner

- **Why is it Important?**
 - The U.S.EPA WasteWise program supports municipal waste reduction efforts by providing free technical assistance, resources, and networking to local governments.
- **What to Do and How to Do It**
 - The municipality must join WasteWi\$e as either a Partner or Endorser within 18 months of the submission for certification.
 - Submit baseline data into the SMM data management system within 90 days.
 - Establish a 1st year goal of at least a 5% increase in waste diverted (combination of waste prevention, recycling, and composting tonnage) as compared to baseline.
 - In subsequent years, participants will be required to set a self-directed goals for waste diverted, and submit annual data to EPA by March 31st of each year.
- **Submission Requirements**
 - Proof of designation as a WasteWi\$e Partner or Endorser
 - Short narrative (300 words) to summarize what actions have been or will be implemented as a WasteWi\$e partner.
- **Point Value: 5 points**



Historic Recycling Actions

1. Establish A Recycling Depot
2. Adopt A Construction & Demolition Waste Ordinance
3. Additional Materials:
 - Food Waste
 - Residential Carpet & Foam Padding
 - Bulky Rigid Plastics
 - Shrink Wrap
4. Community Paper Shredding Day



Establish a Recycling Depot

- **Why is it Important?**

- A Recycling Depot provides residents and businesses with a convenient location to drop off recyclable materials that cannot be collected curbside. With them Towns can collect a greater variety of items and divert significant tonnage from the waste stream.

- **What to Do and How to Do It**

- You must demonstrate that your recycling depot was operational for at least one day per week from within 18 months of the submission for certification.
- The recycling depot must be located in a convenient location where residents can drop off at least your municipality's list of designated recyclable materials.

- **Submission Requirements**

- List of the materials collected at the depot
- Informational material that advertises the depot, including location, hours of operation and list of materials collected.
- Pictures which document that the depot exists

- **Point Value: 10 points**



Adopt a Construction & Demolition Waste Ordinance

- **Why is it Important?**
 - C&D waste stream is highly recyclable. Wood, wallboard, cardboard, plastics, paper, metals and aggregate materials
 - DEP advertises a Model Ordinance approach for C&D management plans by project tied to the issuance of local Building Permits
- **What to Do and How to Do It**
 - The adoption and implementation of a C&D Waste Recycling Ordinance before or within the year in which you are applying for certification
 - The creation of forms to be used by contractors so that your municipality can track construction and demolition waste and recycling for each project.
- **Submission Requirements**
 - Proof the Ordinance meets the SJ published Standards (in the Action)
 - Copies of tracking forms developed
- **Point Value:** 10 points



Additional Materials: Food Waste

- **Why is it Important?**
 - Food is the primary material left in the municipal garbage can today!
 - Estimated to represent 25% of MSW in Mercer County
 - Food generates methane gas when landfilled and needs to be managed as an organic resource to produce compost and soil amendment products
- **What to Do and How to Do It**
 - The food waste recycling program must be active and in force from within 12 months of submission for certification. The food waste program can start out as a pilot. (Princeton Program gives an excellent example!)
- **Submission Requirements**
 - Short narrative (300 words) to summarize what was accomplished and steps taken to accomplish it to implement a comprehensive food recycling program
- **Point Value:** 10 points



Additional Materials: Residential Carpet & Padding

- **Why is it Important?**
 - Carpet is a petroleum based product. Recycling programs can save more than 700,000 barrels of oil per year, conserving 4.4 trillion BTUs of energy. Takes up landfill space and is a nuisance to equipment
- **What to Do and How to Do It**
 - Adopt an ordinance designating carpet and padding or demonstrating recycling with no ordinance;
 - Submit promotional materials to educate the community
- **Submission Requirements**
 - Municipal Ordinance or Tonnage Grants Report if the no ordinance option is followed. Also submit promotional materials
- **Point Value:** 10 points



Additional Materials: Bulky Rigid Plastics

- **Why is it Important?**
 - Expands plastics recycling beyond beverage containers. Can include plastic buckets, crates, toys, pallets, shelving, chairs, VHS tapes, 5-gallon bottles, and car bumpers
- **What to Do and How to Do It**
 - Adopt an ordinance designating bulky rigid plastic or demonstrating recycling with no ordinance;
 - Submit promotional materials to educate the community
- **Submission Requirements**
 - Municipal Ordinance or Tonnage Grants Report if the no ordinance option is followed. Also submit promotional materials
- **Point Value:** 10 points



Additional Materials: Shrink Wrap

- **Why is it Important?**
 - Shrink wrap is commonly used for protecting boats during winter storage. Also used in marine, agricultural, and transport packaging. Like other plastics, shrink wrap it is a petroleum-based product, and recycling LDPE can save oil and conserve energy. LDPE is easy to recycle.
- **What to Do and How to Do It**
 - Adopt an ordinance designating shrink wrap recycling or demonstrating recycling with no ordinance;
 - Develop promotional materials to educate the community
- **Submission Requirements**
 - Municipal Ordinance or Tonnage Grants Report if the no ordinance option is followed. Also submit promotional materials
- **Point Value:** 10 points



Community Paper Shredding Day

- **Why is it Important?**

- Residents are reluctant to recycle confidential documents/files due to security issues. Several counties (Middlesex, Burlington, Ocean, and Monmouth) and communities have offer community paper shredding days

- **What to Do and How to Do It**

- You must conduct your paper shredding day(s) from within 18 months of the submission deadline and specify the date(s) of the event(s)
- Demonstrate the Town actively organized and promoted the event(s)
- Provide an estimate of the number of people participating and tons recycled.

- **Submission Requirements**

- Short narrative (300 words) to summarize what was accomplished and steps taken to accomplish it. Include the date(s) the event(s) and specify if they were part of a county program. Include promotional materials

- **Point Value: 5 points**



2014 New Waste Management Actions



Five New Waste Management Actions

- Prescription Drug Safety and Disposal
- Commercial/Institutional Recycling
- Reusable Bag Education Program
- Education & Enforcement
- Non-Mandated Materials



Prescription Drug Safety and Disposal

- **Why is it Important?**
 - Need to address antibiotics, anti-convulsants, mood stabilizers and sex hormones in groundwater
- **What to Do and How to Do It**
 - Link to DEA National Take-Back Day, Project Medicine Drop, P2D2, RX4Safety, American Medicine Chest Challenge – or own program
 - Coordinate with law enforcement
- **Submission Requirements**
 - Establish permanent drop off location or conduct at least 2 drop off events/year
- **Point Value:** 10 points



Commercial/Institutional Recycling

- **Why is it Important?**
 - No dedicated tracking of performance in NJ; significant non-compliance, need to reach 50% state-wide recycling goal
- **What to Do and How to Do It**
 - Ordinance in place OR no ordinance, but recycles options
 - **Example Activities:** Municipality-wide inventory of generators, tracking system for stores/schools, food waste collection/recycling in restaurants, recycling competitions, recycling at sports venues.
- **Submission Requirements**
 - Ordinance and promotional materials OR promotional materials, implementation plan, tonnage reports
- **Point Value:** 10 points



Reusable Bag Education Program

- **Why is it Important?**
 - Hot topic in the New Jersey Legislature and bans and surcharge programs proposed
 - 500 billion plastic bags used annually worldwide
 - Bags contribute to litter, clog MRF equipment, “Green Fence” Initiative in China at same time single stream popularized
- **What to Do and How to Do It**
 - Ongoing education program with short and long range plans
 - **Example Activities:** Public announcements, business outreach, linkages to schools, “Bag Care” component on hygiene”
- **Submission Requirements**
 - Program outreach/educational materials, photos,
 - Optional: ordinance or resolution of support
- **Point Value: 5 Points**



- **Why is it Important?**

- **What to Do and How to Do It**

- **Submission Requirements**

- **Point Value: 5 Points**



Non-Mandated Materials

- **Why is it Important?**
 - “Catch-all” action area, and allows for flexible submissions
 - Pertains to either source reduction or recycling
- **What to Do and How to Do It**
 - Ordinance in place OR no ordinance but recycles - must go beyond recycling county mandated materials
 - Example Activities: Toy take-back, clothing or textile recovery, recycling and marketing of 3-7 plastics
- **Submission Requirements**
 - Ordinance, promotional materials, tonnage reports
- **Point Value: 5 Points**



How to Maximize Your Actions & Points

- Questions to ask when looking at the actions
 - Do you have a recycling depot?
 - If so, what materials does it collect? Are they any of the additional actions? If so, then submit for those too!
 - If so, what are the educational/promotional materials that you developed? Do they meet the requirements for Recycling Education & Enforcement? If so, submit for that action!
 - Think about ALL the educational/promotional materials you have developed for your town, what events have they been used for?
 - Have you held one event where you have offered community paper shredding, electronic recycling, or collection of other materials? If so, use those educational materials to submit for each action.



Working with Your County

- Your County can provide a wealth of information. Take note of the materials already **required** to be recycled by them.
 - If a material is required, you **cannot** earn points for it.
- Visit county websites to learn more about materials both mandated and non-mandated (next slide).
- Collaborate with your county! You can participate in county initiatives, so long as the municipality demonstrates an active role in promoting the recycling activity.
 - Example: If a town hosts a paper shredding day sponsored by the county, the town should create its own promotional materials to advertise this service to residents.



County Recycling Websites

- Atlantic County Utilities Authority (ACUA)
 - <http://www.acua.com/acua/index.aspx>
- Bergen County Utilities Authority
 - <http://www.bcua.org/>
- Burlington County
 - <http://www.co.burlington.nj.us/345/Recycling>
- Camden County
 - <http://www.camdencounty.com/parks/recycling-info/camden-county-recycling>
- Cape May County
 - <http://www.cmcMua.com/>
- Cumberland County Improvement Authority
 - http://ccia-net.com/county_recycling/default.aspx
- Essex County Utilities Authority
 - <http://www.ecuanj.com/>
- Gloucester County Improvement Authority
 - <http://www.gcianj.com/county-recycling/>



County Recycling Websites

- Hudson County Improvement Authority
 - <http://www.hcia.org/>
- Hunterdon County
 - <http://www.co.hunterdon.nj.us/recycling.html>
- Mercer County Improvement Authority
 - <http://www.mcia-nj.com/>
- Middlesex County
 - http://www.co.middlesex.nj.us/planningboard/solidwaste_general.asp
- Monmouth County
 - <http://www.visitmonmouth.com/page.aspx?Id=4185>
- Morris County Municipal Utilities Authority (MCMUA)
 - <http://mcmua.com/index.asp>
- Ocean County
 - <http://www.co.ocean.nj.us/SolidWaste/MainPage.aspx>
- Passaic County
 - <http://www.passaiccountynj.org/index.aspx?NID=151>



County Recycling Websites

- Salem County Improvement Authority
 - <http://scianj.com/>
- Somerset
 - <http://www.co.somerset.nj.us/recycle/>
- Sussex County Municipal Utilities Authority
 - <http://www.scmua.org/cit-e-access/webpage.cfm?TID=121&TPID=11922>
- Union County
 - <http://ucnj.org/community/recycling/>
- Warren County
 - <http://www.co.warren.nj.us/Recycling/>



What's on the Horizon

- **Sustainable Jersey For Schools**
 - Replicating the Municipal Program for New Jersey's 2,000 + schools. Developing 8 Actions for the Inaugural Schools Program for roll-out in October at the Annual State Schools Convention in Atlantic City.
- **Additional Municipal Actions for 2015**
 - After completing the initial Schools Program, we will seek to develop new recycling and waste reduction actions.
- For general inquiries about waste management actions, contact Samantha McGraw at info@sustainablejersey.com, or 609-771-2938
- **QUESTIONS????????????????**

