Waste Reduction & Recycling Programs

Waste Reduction & Recycling Section
July 17, 2018
Recycling in Montgomery County

- Program began in 1970
- County began long-range planning for recycling on April 16, 1971
- Curbside collection of recycling began in 1979
- Business recycling began in 1983
- County’s recycling program has continuously expanded over time ever since
Waste Reduction Policy 1993

Montgomery County Policy on Waste Reduction

Objective: Increase legislative and governmental support for waste reduction

Objective: Develop incentives for waste reduction

MONTGOMERY COUNTY POLICY ON WASTE REDUCTION

Waste reduction - also called source reduction - is the design, manufacture, purchase and use of materials or products (including packaging) to reduce their amounts and impacts before they enter the municipal solid waste stream. It is based on the premise that measures to prevent waste from occurring in the first place are more effective than programs to manage it after it has been generated. The environmental benefits of waste reduction are pollution reduction and resource conservation, but also other practical and significant benefits, such as conservation of waste management capital (e.g., landfill space) and resources in waste handling and disposal systems.

Policy Statement: In 1993, Montgomery County made waste reduction a priority by placing it at the top of the County's hierarchy for solid waste management and issuing the County's first waste reduction policy. This policy was designed to support and expand source reduction efforts in the County by encouraging activities that reduce solid waste at the source. The policy outlines a framework for implementing source reduction programs, which are designed to help businesses and citizens reduce waste generation and improve waste management practices. The County also encourages and supports programs that promote waste reduction and recycling, and provides funding and incentives for these efforts.

3. Examine County Waste Reduction Opportunities

With this policy, the County increases the prominence of waste reduction within its solid waste program. More than ever, it is clear that residents and businesses of the County, as well as individuals and groups throughout the County, can benefit from and contribute to waste reduction efforts. The County's policy also encourages and supports programs that promote waste reduction and recycling, and provides funding and incentives for these efforts.

4. Participate in and Encourage Regional Waste Management Efforts

Objective: Increase legislative and governmental support for waste reduction

The County's policy increases the prominence of waste reduction within its solid waste program. More than ever, it is clear that residents and businesses of the County, as well as individuals and groups throughout the County, can benefit from and contribute to waste reduction efforts. The County's policy also encourages and supports programs that promote waste reduction and recycling, and provides funding and incentives for these efforts.

5. Explore Waste Reduction Incentives and Disincentives

Objective: Explore waste reduction incentives and disincentives

The County's policy increases the prominence of waste reduction within its solid waste program. More than ever, it is clear that residents and businesses of the County, as well as individuals and groups throughout the County, can benefit from and contribute to waste reduction efforts. The County's policy also encourages and supports programs that promote waste reduction and recycling, and provides funding and incentives for these efforts.

6. 2. Expand Waste Reduction Information and Programs

The County's policy increases the prominence of waste reduction within its solid waste program. More than ever, it is clear that residents and businesses of the County, as well as individuals and groups throughout the County, can benefit from and contribute to waste reduction efforts. The County's policy also encourages and supports programs that promote waste reduction and recycling, and provides funding and incentives for these efforts.

Approved: [Signature] 4/19/93

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DSWS Recycling Services

• Single-Family Sector
  – Weekly curbside collection
  – Outreach, education, and training

• Multi-Family Sector & Non-Residential Sector
  – Outreach, education, technical assistance
  – Training, hands-on guidance and support
  – Investigations and enforcement
Recycle Everywhere

Recycle at Home

Recycle at Work

Recycle at Your Apartment/Condo

Recycle at School
Recycling: Easy and Convenient
Tools in the Toolkit
Major Efforts of the Section

- Strategies/programs/initiatives/activities to reduce waste and increase recycling
- Implementation of recycling regulations
- Education, training and technical assistance
- Enforcement of regulations
- Strategic communications and work with the media
Programs/Initiatives

• Waste Reduction, Reuse & Recycling Education
• Commercial Waste Reduction & Recycling
• Multi-Family Waste Reduction & Recycling
• Recycling Investigations & Compliance
• Recycling Volunteer Program
• Yard Trim Reduction
• Food Scraps Program
• Buying Recycled Education
Mandatory Recycling

- Executive Regulation 1-15
- Executive Regulation 18-04
- Executive Regulation 7-12

And Still:

- Education
- Technical Assistance/Training
- Judicious Enforcement
- Lead by Example
- Partnerships
Executive Regulation 1-15

- Mandates recycling of comprehensive and specific materials by all generators
- Requirements cover all sectors
  - Single-Family Residential
  - Multi-Family Residential
  - Non-Residential/Commercial/Business
- Includes requirements of collectors
- Mandates reporting
Mandated Materials for Recycling
Commingled Materials
(Bottles, Cans, Containers, Foil Products)

Plastic bottles, tubs, jars, containers, pails, buckets, flower pots, caps/lids, clamshell containers, trays, and more

Aluminum cans, foil, and foil products

Bi-metal (steel/tin) and empty non-hazardous aerosol cans

Glass bottles and jars
Mixed Paper
(Clean, dry paper and cardboard)

- Paperboard and cardboard boxes
- Newspaper and inserts
- Unwanted mail, envelopes, office paper, magazines, phone books, books, etc.
- Coated paper items
- Shredded paper
Scrap Metal Items
(Items 50% or more metal)
Yard Trim & Christmas Trees

- Grass
- Leaves
- Brush
- Christmas Trees (without anything on them)
Other Materials Recycled
Drop-Off at Montgomery County Shady Grove Processing Facility and Transfer Station:

- Tires; including bicycle tires; with or without rims (up to 5 per year)
- Automobile batteries (lead-acid)
- Antifreeze (up to 5 gallons)
- Motor oil and most other oils, hydraulic fluids, and kerosene (up to 5 gallons)
- Liquid cooking and vegetable oil (up to 5 gallons)
- Tanks/cylinders (helium and propane cylinders less than 20 lbs.)
- Bicycles
- And more!!

16101 Frederick Road (Route 355)
Monday - Friday: 7:00am - 8:00pm
Saturday: 7:00am - 5:00pm
Sunday: 9:00am - 5:00pm
Electronics Recycling

- Computers and related items
- Computer monitors (CRTs and flat screen)
- Desktop computers
- Laptop computers
- Docking stations
- Mainframes
- Servers
- Terminals
- Keyboards / Mice
- CDs and DVDs
- Floppy disks
- Hard drives
- Peripherals
- Televisions (CRTs and flat screen)
- VCRs
- Printers
- Toner and ink cartridges
- Scanners
- Fax machines
- Copy machines

- Digital cameras and memory cards
- Stereos
- Radios
- Tape players
- CD players
- Telephones
- Cell phones
- Gaming consoles
- Holiday lights / light strings
- Power and network cables
- Network hubs
- Switching boxes
- Controllers
- Modems
- Printed circuit boards
- Small household appliances (dispose accessories and other non-electronic parts as regular trash)
- Larger rechargeable battery units
- Uninterruptible power supplies (personal & network)
- Tool batteries
Bulky Rigid Plastics

- Program began in September 2013
- Drop-off at Shady Grove Processing Facility/Transfer Station

Bulky Rigid Plastics Recycling Drop-Off
(Not for curbside recycling collection)

Acceptable Bulky Rigid Plastics
- Toys (no batteries, wood or wires)
- Playhouses and swimming pools
- Large buckets (larger than 5-gallon in size)
- Milk/soda crates
- Landscape items (flags, trugs, etc.)
- Laundry baskets
- Lawn furniture
- Closet organizers
- Dish drainers
- Tote boxes and lids
- Drums (food grade ONLY; NO chemical containers)
- Pet carriers
- Flower pots and trays (clean, no soil or plant material)
- Large water bottles (3-gallon or larger)
- Garbage cans/waste baskets
- Recycling bins
- Shelving
- Trays
- Automotive parts (plastic bedliners, bumpers, grills and hubcaps)
- Pallets
- Traffic signs
- Composite lumber products
- PVC and PET blister packs
- Clothes hangers

Note: All rigid plastic items for recycling should be empty, rinsed if needed, and be free of loose soil, dirt, etc.

Unacceptable Plastics

The following types of plastics cannot be recycled with mixed rigid plastics or with commingled materials:
- Polystyrene or Styrofoam plastics (marked PS #6)
- PVC plumbing
- Vinyl fencing/siding
- Medical waste
- Motor oil containers
- Plastics containing or contaminated by chemicals or hazardous waste
- Films (shopping or grocery bags and stretch film)
- Pesticide/herbicide containers
- Garden hoses

Drop-off at: Montgomery County Shady Grove Processing Facility and Transfer Station
16101/16105 Frederick Road, Derwood, MD 20855
Monday-Friday: 7am-8pm; Saturday: 7am-5pm; Sunday: 9am-5pm
Batteries

- Lithium batteries
- Lithium-ion batteries
- Nickel-cadmium batteries
- Lead acid (vehicle) batteries
- Uninterruptible power supplies (personal & network)
- Tool batteries

www.call2recycle.org
Don’t Dump! Donate! Usable Building Materials

- Bricks
- Cinderblocks
- Cabinetry - kitchen/bath sets and singles
- Doors
- Garden supplies
- Flooring - ceramic, wood, new carpet and linoleum
- Lighting and ceiling fans
- Lumber, plywood, & molding - over 4 feet with no nails
- Plumbing - toilets, sinks, tubs, radiators
- Roofing - rolled roofing, shingles, gutters and downspouts
- Tools
- Windows - thermal pane

WHAT TYPES OF MATERIALS ARE ACCEPTED IN THIS PROGRAM?
Textiles/Clothing

- Donate good quality clothing to your favorite charitable organization
  - Clean clothing in wearable or non-wearable condition
  - Shoes (keep pairs together)
  - Sheets
  - Drapes
  - Towels
  - Belts
  - Handbags
  - Pieces of cloth and material larger than 14 inches square
Steady Increases in Recycling

598,782 Tons of materials recycled in CY 2016
55% recycling rate
60% waste diversion rate

Per Maryland Waste Diversion Rates & Tonnages 2/23/18
Data Sources

- Scale-house data at County’s facilities
- Required 6-month hauler/collector reports from licensed collectors
- Voluntary processor reports
- Annual business or multi-family reports, particularly those indicating self-haul or back-haul
- “Rock-flipping” study performed annually
The Sources of Waste

1,088,412 tons of waste generated during Calendar Year 2016

- Single-family: 38.2%
- Multi-family: 9.0%
- Commercial: 52.8%
Waste Reduction and Recycling Education

• Comprehensive technical assistance, information, education and training on: waste reduction, reuse, recycling, and buying recycled
• Educational events
• Development & distribution of recycling information (mailings, broad-based education, Civic Loop Newsletter, etc.)
• Presentations to HOA’s, civic associations, and other groups
Education and Training
“Teach Your Children Well”
Educational Materials for Single-Family Residents
Direct Education

In FY17, Section staff participated in 265 events and reached 33,880 residents and employees.
Special Recycling Events

- Confidential paper shredding/recycling and clothing and household goods donation collection events
- Golf tournament recycling monitoring and assistance
- Recycling Awareness Week
- CE recycling media events
Commercial Waste Reduction & Recycling Program

- Established in the 1980’s; mandatory recycling enacted in 1993
- Programs and activities to reduce waste, increase on-site recycling at businesses, organizations and government facilities
- Support provided to ~33,000 businesses and organizations with ~528,000 employees
- Technical assistance, training and education
- Administer/enforce recycling regulations
- No collection services provided
Defining Businesses in Montgomery County

• Anything not residential in nature is considered a business
• Includes not-for-profit entities, organizations, as well as government facilities at all levels
• Executive Regulation 1-15 defines:
  – Large business = 250+ employees
  – Medium-sized business = 100-249 employees
  – Small business = 99 or fewer employees
• All businesses must recycle; some must report
Annual Reports

- Mandatory annual reporting requirements:
  - All large businesses
  - All medium-sized businesses
  - Select small businesses (upon request by the County)
  - All property owners of multi-tenant facilities
  - All property owners in common ownership commercial properties
SORRT Program

Smart Organizations Reduce & Recycle Tons

• Perform on-site consultation and recycling program design
• Coordinate seminars, webinars, workshops, in-house training to business owners, managers and employees
• Conduct recycling training and certification for janitorial/maintenance companies
• Design educational materials to address issues and increase recycling
• Provide variety of indoor and outdoor recycling bins and containers
• Manage Partners-In-Recycling Program and Recycling Oversight Committee
• Collect data on recycling tonnages and solid waste
Business Recycling Program

• Program Manager
  ▪ Implements and directs initiatives and activities
  ▪ Develops and plans future initiatives

• Recycling Education Specialists (4)
  ▪ Assigned Coverage Areas
  ▪ Provide direct assistance to businesses
  ▪ Perform 45 site visits per week

• Senior Recycling Specialist
Site Visits & Consultations

- Conduct a waste assessment
  - What’s generated?
  - What’s in the trash?
  - What’s in the recycling?
- Identify waste reduction opportunities
- Identify reuse opportunities
- Identify recycling opportunities & opportunities to increase recycling
Site Visits for Businesses

SORRT Site Visits

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Number of Site Visits</th>
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<tr>
<td>FY06</td>
<td>8,172</td>
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<td>7,647</td>
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<td>11,074</td>
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<td>FY13</td>
<td>9,812</td>
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<td>FY14</td>
<td>10,914</td>
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<td>FY15</td>
<td>10,380</td>
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<tr>
<td>FY16</td>
<td>8,079</td>
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<tr>
<td>FY17</td>
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</table>
On-Site Consultations/Recycling Program Design

M-NCPCC Planning Dept.

Safeway
Education and Training

- SORRT Seminars
- On-site Presentations and Workshops
- Employee Training Sessions
- Employee Events
Other Efforts to Increase Business Recycling

- Janitorial/Maintenance Service Certification
- Partners in Recycling
- Recycling Oversight Committee (ROC)
Educational Materials
Multi-Family Recycling & Waste Reduction Program

- Program established in the 1990’s; mandatory recycling enacted in 1993
- Programs and activities to increase on-site recycling at apartments and condominiums
- Support provided to ~700 multi-family properties with ~125,000 dwelling units
- Technical assistance, training and education
- Administer/enforce recycling regulations
- No collection services provided
Defining Multi-Family Properties in Montgomery County & Reporting Requirements

• Buildings with seven (7) or more dwelling units

• Includes:
  – Apartments
  – Condominiums
  – Co-ops

• All multi-family properties must recycle and must report annually
TRRAC Program

Think Reduce & Recycle at Apartments and Condominiums

• Perform site evaluations and provide specific recommendations to improve recycling
• Provide seminars, webinars, community events for property owners, managers, staff and residents
• Create materials to motivate properties and residents to recycle more
• Provide in-unit and common area recycling bins and containers
• Collect data on recycling tonnages and solid waste
Multi-Family Recycling

• Program Manager:
  ▪ Implements and directs initiatives and activities
  ▪ Develops and plans future initiatives

• Recycling Education Specialist:
  ▪ Provide direct assistance to apartment and condominium properties
  ▪ Performs 35 site visits per week

• Senior Recycling Specialist
On-Site Consultations
Site Visits to Multi-Family Properties

TRRAC Site Visits

<table>
<thead>
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<th>Fiscal Year</th>
<th>Number of Site Visits</th>
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<td>FY13</td>
<td>2,093</td>
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<tr>
<td>FY14</td>
<td>2,411</td>
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<td>FY15</td>
<td>3,246</td>
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<tr>
<td>FY16</td>
<td>3,275</td>
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<tr>
<td>FY17</td>
<td>2,622</td>
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</table>
TRRAC Seminars
Educational Resources
Bridge Language Challenges

Primary apartment/condominium recycling brochure available in ten languages
Educational Presentations (Multilingual)
Educational Events

Audience Reached at Multi-Family Events

Number of People

<table>
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<tr>
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<td>2007</td>
<td>1,430</td>
<td>2,500</td>
<td>2,659</td>
<td>4,104</td>
<td>5,423</td>
<td>3,865</td>
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<td>2,163</td>
<td>2,536</td>
<td>2,641</td>
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Investigations & Enforcement

Ensure compliance with requirements

Investigate what happens with waste and recyclables
Recycling Investigators

• 3 Recycling Investigators focus on business community
  ▪ Assigned Coverage Areas

• 1 Recycling Investigator focuses on multi-family properties
  ▪ Covers entire County

• Enforcement of:
  – Montgomery County Code Chapter 48 Solid Waste Laws
  – Executive Regulations Concerning Recycling
    ▪ ER 1-15
    ▪ ER 18-04
## Update on Enforcement of ER 1-15

<table>
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<tr>
<th>Key Statistics</th>
<th>FY06</th>
<th>FY07</th>
<th>FY08</th>
<th>FY09</th>
<th>FY10</th>
<th>FY11</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17 12 months (7/1/16-6/30/17)</th>
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</thead>
<tbody>
<tr>
<td>Total Properties Visited</td>
<td>2,903</td>
<td>3,333</td>
<td>5,981</td>
<td>8,517</td>
<td>8,512</td>
<td>7,970</td>
<td>5,763</td>
<td>6,625</td>
<td>6,454</td>
<td>6,451</td>
<td>6,664</td>
<td>6,524</td>
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<tr>
<td>Total Investigation Cases</td>
<td>580</td>
<td>605</td>
<td>767</td>
<td>617</td>
<td>488</td>
<td>439</td>
<td>412</td>
<td>680</td>
<td>630</td>
<td>676</td>
<td>688</td>
<td>669</td>
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<tr>
<td>Notices of Violation Issued</td>
<td>480</td>
<td>638</td>
<td>719</td>
<td>540</td>
<td>499</td>
<td>447</td>
<td>410</td>
<td>615</td>
<td>643</td>
<td>605</td>
<td>683</td>
<td>688</td>
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<tr>
<td>Citations Issued</td>
<td>11</td>
<td>44</td>
<td>167</td>
<td>108</td>
<td>25</td>
<td>26</td>
<td>36</td>
<td>42</td>
<td>48</td>
<td>99</td>
<td>80</td>
<td>47 (39 pending)</td>
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<td>Citations Resolved through Compliance</td>
<td>11</td>
<td>44</td>
<td>167</td>
<td>108</td>
<td>25</td>
<td>26</td>
<td>36</td>
<td>42</td>
<td>48</td>
<td>99</td>
<td>80</td>
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<tr>
<td>Fines Paid on Citations</td>
<td>$2,300</td>
<td>$6,450</td>
<td>$14,950</td>
<td>$17,416</td>
<td>$4,558</td>
<td>$3,750</td>
<td>$6,100</td>
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<td>$5,400</td>
<td>$13,500</td>
<td>$16,150</td>
<td>$9,350</td>
</tr>
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</table>

Revised July 7, 2017
Recycling and Solid Waste Violations at a Business
Compliance Achieved after Issuance of Citation
Violations by a Licensed Collector

Photo #1

Photo #2

Photo #3

Photo #4
Violations Under Chapter 48 at a Multi-Family Property
(Overflowing Containers and Trash on the Ground)

Before Citation

After Citation
Reduction of Yard Trim
(Composting and Grasscycling)

- Integrated approach
- Work with all key parties
  - Generators
  - Landscape contractors
  - Lawn service providers
- Member of the MD-DC-VA Landscape Contractors Association
Grasscycling and Composting Education

- Training Workshops/Seminars
- Website
- Electronic newsletters
- Educational events
- Work with lawn service providers
- Compost demonstration site at Meadowside Nature Center & WSSC Brighton Dam
- Educational materials and translations
- Compost bin distribution locations & hours (22 total)
Compost Bins for Residents

Compost Bin Distribution

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Number of Compost Bins</th>
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<tbody>
<tr>
<td>FY07</td>
<td>2,374</td>
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<td>5,903</td>
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<td>5,328</td>
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<td>FY16</td>
<td>2,953</td>
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<tr>
<td>FY17</td>
<td>2,610</td>
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Recycling Volunteer Program

- Recycling Volunteer Coordinator:
  - Recruits volunteers
  - Trains volunteers
  - Coordinates volunteer activities
  - Creates and organizes events
  - Solicits and schedules volunteers
  - Plans appreciation and recognition event
In FY17, our Recycling Volunteers donated time and service equal to $32,867.25.
Volunteers Stretch Staff Reach
Food Scraps Recycling Program

• 1 Program Manager I (FY19 position) to manage Commercial Food Scraps Recycling Program
  ▪ Secure processing capacity
  ▪ Develop incentives
  ▪ Implement and direct initiatives and activities
  ▪ Develop and plan future initiatives

• Minor modifications to Transfer Station Annex, if necessary

• Education and technical assistance to residents of single-family homes; increase awareness and understanding of food scraps recycling; assess level of interest

Strategic Plan on Food Scraps
Food Scraps Recycling by Businesses (and Multi-Family Properties)

Demonstration Project in EOB Cafeteria

- Establish Best Practices
- Showcase and highlight to others
- Pre-consumer food waste for recycling
- Additional waste reduction and recycling best practices as well
- Education and training materials
- Containers and storage
- Collection and transport
- Reports and data

![Graph showing annual amount of pre-consumer food scraps collected for recycling from 2012 to 2017.](image-url)
Other Initiatives to Increase Recycling Achievement
Positive Reinforcement & Motivation

Recognition of Recycling Achievement includes:

• Invitation to awards recognition ceremony
• Showcased in newsletters, presentations and more
• Acknowledgement on website
• Highlighted via media (media advisories, press release)
Continue to Expand Opportunities to Recycle More

• Cooperative Collection Projects
  ▪ Businesses share recycling and trash containers and split collection costs. Money is saved on collection costs and more materials are recycled.

• Recycling in Public Places
  ▪ Assist with program design to establish recycling for residents and visitors in public spaces.

• Recycling at Special Events
  ▪ Provide recycling containers and tech support to event organizers to increase recycling at community events.

• Waste Audits and Characterizations
  ▪ Conduct waste audits and use composition studies to identify potentially recyclable materials in the waste stream.
Work with the Development Community

• Research, evaluate and develop design standards and guidelines
• Work with regulatory agencies (M-NCPVC, DPS)
• Provide technical assistance to owners, developers, designers and engineers on commercial, multi-family and mixed-use development proposals
• Review/approve “Recycling Facility Plan” by which projects may achieve public benefit points required to approve density allowed under zoning
Planning for the Future

- Review and analysis of Annual Report and other data
- Solid waste and recycling studies
- Field testing and special projects
- Focus group research
- Telephone surveys
- Mail-in surveys
- Feedback and customer service surveys
- Site visit surveys
- Strategic planning and program development
Keep Looking for the Next Frontiers
Eileen Kao, Chief
Waste Reduction & Recycling Section

Eileen.Kao@montgomerycountymd.gov
240-777-6406