



Department of Environmental Protection  
Montgomery County, Maryland  
***DIVISION OF SOLID WASTE SERVICES***

***QUARTERLY REPORT***

***JANUARY, FEBRUARY, AND MARCH 2014***  
(3<sup>rd</sup> Quarter of FY14)



For the second consecutive year, Montgomery County has the highest waste diversion rate in Maryland. For calendar year 2012, Montgomery County again led all other jurisdictions in the state in waste diversion with a rate of almost 60 percent, according to the Maryland Department of the Environment. The waste diversion rate primarily reflects recycling efforts but also credits waste reduction efforts.

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***TABLE OF CONTENTS***

OVERVIEW ..... 3

CITIZEN COMMITTEES ..... 5

COLLECTIONS ..... 5

WASTE MINIMIZATION ..... 9

HAZARDOUS WASTE PROGRAMS ..... 10

WASTE REDUCTION ..... 11

AIR PERMITS AND ENVIRONMENTAL PROGRAMS ..... 11

RECYCLING ..... 12

PILOT PROGRAMS ..... 15

FACILITY ACTIVITIES ..... 15

OUT-OF-COUNTY HAUL ..... 19

GENERAL INFORMATION ..... 20

SOLID WASTE FACTS IN A NUTSHELL ..... 21

GLOSSARY OF ACRONYMS ..... 22

# **OVERVIEW**

## **Tonnage at a Glance**

The following table shows key material flows during the months of January, February, and March including the fiscal year to date (FY YTD), and the same calendar month in the two (2) prior fiscal years. (County Fiscal Year 2014 began July 1, 2013.)

<b>FACILITY</b>	<b>Jan FY14</b>	<b>FY14 YTD</b>	<b>Jan FY13</b>	<b>Jan FY12</b>
Materials Recovery Facility <sup>(1)</sup>	6,460 tons	44,053 tons	6,974 tons	7,033 tons
Brunswick Landfill Facility <sup>(2)</sup>	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility <sup>(3)</sup>	49,585 tons	337,642 tons	43,110 tons	42,745 tons
Yard Trim Compost Facility	1,778 tons	48,314 tons	1,923 tons	213 tons
Honeygo Run Reclamation <sup>(4)</sup>	508 tons	18,615 tons	3,632 tons	1,863 tons
Ash Recycling (Old Dominion LF) <sup>(5)</sup>	13,154 tons	97,888 tons	11,606 tons	12,511 tons

<b>FACILITY</b>	<b>Feb FY14</b>	<b>FY14 YTD</b>	<b>Feb 13</b>	<b>Feb FY12</b>
Materials Recovery Facility <sup>(1)</sup>	4,952 tons	49,005 tons	5,415 tons	5,764 tons
Brunswick Landfill Facility <sup>(2)</sup>	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility <sup>(3)</sup>	36,424 tons	374,066 tons	40,807 tons	40,645 tons
Yard Trim Compost Facility	661 tons	48,975 tons	1,126 tons	0 ton
Honeygo Run Reclamation <sup>(4)</sup>	562 tons	19,177 tons	2,006 tons	2,848 tons
Ash Recycling (Old Dominion LF) <sup>(5)</sup>	10,241 tons	108,129 tons	12,140 tons	12,772 tons

(1) MRF tons reported as outgoing.

(2) Refers to waste sent to the landfill for disposal (ash residue and nonprocessible waste). It does not include rubble and bulk natural wood waste that is recycled.

(3) RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here.

(4) Non-processible waste sent to be sorted for recycling and landfilled.

(5) Ash sent to Old Dominion Landfill for internal roads within working landfill cells and alternate daily cover.

FACILITY	Mar FY14	FY14 YTD	Mar FY13	Mar FY12
Materials Recovery Facility <sup>(1)</sup>	5,387 tons	54,392 tons	5,546 tons	6,249 tons
Brunswick Landfill Facility <sup>(2)</sup>	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility <sup>(3)</sup>	46,749 tons	420,815 tons	40,653 tons	40,964 tons
Yard Trim Compost Facility	1,277 tons	50,252 tons	1,795 tons	3,204 tons
Honeygo Run Reclamation <sup>(4)</sup>	1,002 tons	20,179 tons	2,634 tons	3,973 tons
Ash Recycling (Old Dominion LF) <sup>(5)</sup>	12,630 tons	120,759 tons	12,253 tons	12,510 tons

*(1) MRF tons reported as outgoing.*

*(2) Refers to waste sent to the landfill for disposal (ash residue and nonprocessible waste). It does not include rubble and bulk natural wood waste that is recycled.*

*(3) RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here.*

*(4) Non-processible waste sent to be sorted for recycling and landfilled.*

*(5) Ash sent to Old Dominion Landfill for internal roads within landfill cells and alternate daily cover.*

During January, February and March program staff:

- Researched properties and entered billing changes into the database;
- Prepared monthly house counts for collection contractors;
- Processed vacancy refunds payable in January, February and March;
- Updated Access™ databases and Excel™ spreadsheets for monthly Refuse and Recycling Collection contractor reports;
- Continued routine research and correction of solid waste fee abnormalities as they emerge in the property tax database;
- Generated Hauler/Collector Credit Account invoices for January, February and March 2014 totaling \$3,391,086.14 (an increase of \$223,280.50 above the same quarter in 2013);
- Updated the Aging Report (30-day average arrearage was less than \$15,000 per month for the quarter);
- Reconciled January, February and March 2014 tons to monies posted in ERP, as well as to the total dollars charged in Paradigm;
- Completed review of the FY15 Solid Waste Operating budget with OMB and discussed budget with County Executive; and
- Made significant progress on Gain Sharing project to develop an inventory reuse system-database.

## **CITIZEN COMMITTEES**

**Dickerson Area Facilities Implementation Group (DAFIG)** – DAFIG met on Tuesday, March 18, 2014. Topics discussed included the following: EMS Update, Human Risk Assessment Update, Complaint Report, Report, SWAC and Facilities Update. DAFIG approved the Dickerson Master Plan update. The next quarterly DAFIG meeting will be held on Tuesday, June 10, 2014.

### **Solid Waste Advisory Committee (SWAC)**

January 2014 – No meeting (no quorum).

February 2014 – No meeting (no quorum).

March 2014 – DSWS Section Chiefs presented an overview of the proposed FY15 budget, approved by the County Executive. Eileen Kao presented an overview of the Waste Reduction and Recycling Section initiatives and update on activities. Peter Karasik presented an overview of the remediation options considered by DSWS for the closed Gude Landfill. Future meetings will include speakers to discuss alternate uses for the ash generated at the WTE facility.

## **COLLECTIONS**

**Resident Missed Collection Complaints:** These are calls from residents contacting 311 one or two days after their collection day informing us that their solid waste was not collected.

January 2014	39
January 2013	24
Difference	+15

February 2014	23
February 2013	24
Difference	-1

March 2014	24
March 2013	23
Difference	+1

## **Resident Service Requests:**

### *January 2014*

22 gallon bin pick-up	588
22 gallon bin request	2,398
Bulk trash requests	1,174
Cart pick-up	15
Cart repair	350
65 gallon cart	207
35 gallon cart	255
Field check	336
Literature	90
Property damage/missing	28
Same day	111
Scrap Metal request	794

### *February 2014*

22 gallon bin pick-up	415
22 gallon bin request	1,527
Bulk trash requests	1,006
Cart pick-up	6
Cart repair	245
65 gallon cart	110
35 gallon cart	85
Field check	228
Literature	55
Property damage/missing	14
Same day	98
Scrap Metal request	560

### *March 2014*

22 gallon bin pick-up	340
22 gallon bin request	1,291
Bulk trash requests	1,191
Cart pick-up	13
Cart repair	237
65 gallon cart	79
35 gallon cart	58
Field check	233
Literature	99
Property damage/missing	19
Same day	71
Scrap Metal request	754

## **Outreach:**

### Survey Cards:

Staff distributed survey cards while delivering/picking up bins and carts, or performing cart repairs.

In **January** 1,184 cards were dropped off with a return rate of 11.655%.

	Excellent	Good	Average	Fair	Poor
Recycling Programs	94%	3%	1%	1%	1%
County Staff	77%	19%	2%	1%	1%
Recycling Crews	86%	11%	0%	2%	1%

In **February** 754 cards were dropped off with a return rate of 14.987%.

	Excellent	Good	Average	Fair	Poor
Container Delivery	94%	4%	1%	0%	1%
Collection Services	78%	18%	4%	0%	0%
DSWS Staff	81%	14%	5%	0%	0%

In **March** 766 cards were dropped off with a return rate of 16.449%.

	Excellent	Good	Average	Fair	Poor
Container Delivery	90%	7%	1%	0%	2%
Collection Services	67%	26%	3%	2%	2%
DSWS Staff	84%	13%	0%	0%	3%

## **Collection Section Enforcement Actions:**

### *January:*

- Citations: One (1) citation was issued:
  - One (1) citation was issued to 48-20(b) did collect and/or transport solid waste within the county without a valid tag/sticker attached to the vehicle.
- Notices of Violation: Two (2) notices of violation were issued both for the same infraction:
  - Two (2) notices of violations were issued under 48-20(a) did collect and/or transport solid waste within the county without a valid sticker attached to the vehicle.

*February:*

- Citations: One (1) citation was issued:
  - One (1) citation was issued to 48-20(b) did collect and/or transport solid waste within the county without a valid tag/sticker attached to the vehicle.
- Notices of Violation: One (1) notice of violation was issued:
  - 48-20(a) did collect and/or transport solid waste within the county without a valid sticker attached to the vehicle.

*March:*

- Citations: One (1) citation was issued:
  - 48-20(a) did collect and/or transport solid waste without a valid collection tag attached to the vehicle.
- Notices of Violation: Two (2) notices of violation were issued:
  - 48-11 Depositing solid waste upon a highway.
  - 48-20(a) did collect and/or transport solid waste within the county without a valid sticker attached to the vehicle.

**Website:**

Solid Waste Services Website

<b>Metric</b>	<b>January 2014</b>	<b>February 2014</b>	<b>March 2014</b>
Unique Visitors	67,348	61,528	67,361
Page Loads	111,002	95,686	108,331

Email List Memberships

<b>Topic</b>	<b>Subscribers (new this month)</b>		
	<b>January 2014</b>	<b>February 2014</b>	<b>March 2014</b>
Holiday Reminder	24,352 (870)	25,080 (854)	25,922 (941)
HHW Announcements	11,263 (283)	11,554 (350)	11,837 (338)
Facility Updates	5,979 (209)	6,185 (252)	6,399 (254)
Electronics recycling	8,765 (316)	9,117 (394)	9,428 (360)
Go Green	4,085 (140)	4,234 (172)	4,364 (154)
Civic Loop	4,342 (38)	4,377 (63)	4,419 (63)
SORRT Newsletter	3,058 (31)	3,095 (51)	3,126 (61)
TRRAC	1,791 (33)	1,829 (48)	1,874 (60)
Quarterly Report	2,223 (90)	2,342 (134)	2,446 (132)
Paper Shredding Events	5,969 (338)	6,292 (363)	6,637 (379)
<b>Total Subscriptions</b>	<b>71,827 (2,348)</b>	<b>74,105 (2,681)</b>	<b>76,452 (2,742)</b>



Most Popular Web Pages

January 2014	February 2014	March 2014
1. Drop off hours and events	Drop off hours and events	Drop off hours and events
2. Recycling, Trash and Yard Trim programs – home page	Holidays	Recycling, Trash and Yard Trim programs – home page
3. Web Store – home page	Web Store – home page	Web Store – home page
4. Holidays	Web Store – home page	How do I...
5. How do I...	How do I...	Web Store – Single-family recycling containers
6. Web Store – Single-family recycling containers	Web Store – Single-family recycling containers	Bulk trash
7. 22-gal blue bin	Bulk Trash	Transfer Station
8. Transfer Station	22-gal blue bin	22-gal blue bin
9. Facilities – home page	Transfer Station	Holidays
10. How do I... list view	How do I... list view	How do I... list view

## **WASTE MINIMIZATION**

Product Recycled	Jan 2014	FY14 YTD	Jan FY13	Jan FY12
TV's and PC's	129tons	1,077 tons	170 tons	182 tons
Propane Tanks	1 ton	12 tons	2 tons	0 ton
Textiles	10 tons	74 tons	9 tons	0 ton
Construction Materials (Don't Dump – Donate)	1 ton	12 tons	1 ton	1 ton
Vehicle Batteries	3 tons	49 tons	6 tons	12 tons
Scrap Metal	284 tons	2,758 tons	352 tons	343 tons

Product Recycled	Feb 2014	FY14 YTD	Feb FY13	Feb FY12
TV's and PC's	116 tons	1,193 tons	143 tons	153 tons
Propane Tanks	0 ton	12 tons	0 ton	2 tons
Textiles	6 tons	80 tons	12 tons	12 tons
Construction Materials (Don't Dump – Donate)	0 ton	12 tons	0 ton	1 ton
Vehicle Batteries	5 tons	54 tons	6 tons	10 tons
Scrap Metal	287 tons	3,045 tons	244 tons	300 tons

Product Recycled	Mar 2014	FY14 YTD	Mar FY13	Mar FY12
TV's and PC's	107 tons	1,300 tons	125 tons	141 tons
Propane Tanks	3 tons	15 tons	3 tons	0 ton
Textiles	13 tons	93 tons	11 tons	8 tons
Construction Materials (Don't Dump – Donate)	2 tons	14 tons	3 tons	1 ton
Vehicle Batteries	6 tons	60 tons	7 tons	11 tons
Scrap Metal	337 tons	3,382 tons	310 tons	419 tons

## **HAZARDOUS WASTE PROGRAMS**

**Household Hazardous Waste (HHW) Collection** – There were a total of 5,741 patrons to the program in the Third fiscal quarter (January, February, March). During normal business hours we had 5,638 patrons; after 5:00 p.m., we had 678 patrons. Our non-profit paint give-away program gave away 45.19 tons of latex paint and 26.000 tons of paint was solidified.

**Small Quantity Generator/ECOWISE Program** – There were 23 ECOWISE participants in the third quarter of FY14 that discarded 4.16 tons of business related hazardous materials during the quarter.

## **WASTE REDUCTION**

**Bicycle Recycling** – “Bikes for the World” removed 1 ton of bikes in the third fiscal quarter for restoration and shipment to countries worldwide.

**Paint Reduction** – The free paint give-away program was not operational during the third fiscal quarter due to the cold temperatures. There was, however, 45.19 tons of paint donated to Arts for Humanity (Honduras). No other paint was donated to other non-profit organizations as there were no requests for paint donations during this fiscal quarter. We solidified 13 cubic yards of paint in the quarter and did not blend any five-gallon buckets for future paint donation to charities.

**Straight Vegetable Oil (SVO) Recycling** – The Transfer Station has a vendor that accepts Waste Vegetable Oil (WVO) for the sole purpose of bio-diesel production; in the third fiscal quarter, 5 tons of WVO were shipped out for processing into biodiesel.

## **AIR PERMITS AND ENVIRONMENTAL PROGRAMS**

### **Resource Recovery Facility (RRF): CEMS Tracking of RRF Emissions** –

There were two events during the quarter that resulted in emission exceedences.

On Thursday, March 13, for the 6-minute period ending at 10:36 p.m., the CEMS on Unit #3 reported an opacity reading of 13.7 percent (as compared to the permit limit of 10 percent). This was later determined to result from a frozen air-control line on the bag house dampers, which in turn had caused limited air flow in the stack such that materials in the flue to remained in suspense and resulted in opacity. Covanta reported that operators had quickly hooked a hose to the air supply line, to regain proper damper control, but not before the 6-minute excursion. No regulatory consequences are expected.

On Thursday, January 10, the CEMS on Unit #2 reported CO excursions as follows:

212.3 lb/hr for the 1-hour block ending at 10:00 p.m. (1-hour permit limit is 176 lb/hr),  
161.0 lb/hr for the 4-hour block ending at 8:00 p.m. (4-hour permit limit is 87.9 lb/hr),  
50.0 lb/hr for the 24-hour block ending at midnight (24-hour permit limit is 44.0 lb/hr).

Covanta later reported that, at 6:42 p.m. that day, Unit #2 had sustained a severe evaporator tube leak, causing a rapid-loss-of-water type forced shutdown event that could not be fully managed within given block average emission limits. Operators maintained safe sidewall temperatures and burned off the remaining fuel bed, however, the block-hour mass emission limits were exceeded as detailed above. No regulatory consequences are expected.

**TES Contract (Weather Station)** – All of the instrumentation worked normally this quarter. Data recovery for all parameters was 100 percent. Precipitation for the month of January was 2.54 inches; February was 3.98 inches and March was 4.67 inches.

## **WASTE REDUCTION AND RECYCLING**

**Public Education and Outreach** – DSWS staff and Recycling Program Volunteers participated in 55 education and outreach events and activities during January, February and March 2014, reaching an estimated audience of 4,041 people. DSWS has scheduled the next series of confidential paper shredding/recycling and clothing/household items donation collection events for the Spring 2014 season. The events will take place from 10:00 a.m. to 2:00 p.m. at the following locations: Sherwood High School on Saturday, April 5; White Oak Middle School on Sunday, May 4; and at Office Paper Systems on Sunday, June 8. DSWS staff is in the process of coordinating numerous events and activities for Earth Month; staff and recycling program volunteers will be participating in more than 50 events in April alone. Staff met with personnel from the Tiger Woods Foundation to discuss recycling requirements, procedures and education for the 2014 Quicken Loans National Golf Tournament scheduled for June 26-June 29, 2014 at Congressional Country Club in Bethesda. The Maryland Department of the Environment (MDE) released the Calendar Year 2012 Maryland Waste Diversion Rates & Tonnages. For the second consecutive year, Montgomery County has the highest waste diversion rate (60 percent) of all jurisdictions in the state. Work continues on developing the multi-media education campaign to highlight the county's 70 percent recycling goal across all sectors (single-family residential, multi-family, and commercial) and motivate everyone living, working, and visiting in the County to recycle more.

**On-Site Composting and Waste Reduction Activities** – A total of 577 compost bins were distributed between January 1, 2014 and March 31, 2014 to encourage residents to compost their leaves and grass clippings on-site in a continuing effort to reduce the amount of yard trim materials processed by the county. Staff and recycling program volunteers distributed compost bins to residents during the following events: Montgomery County Home Show; Master Gardener Grow It Eat It; the Master Gardener Spring Conference; as well as during DSWS-led composting sessions, including a workshop held at Damascus Library, Master Gardener Compost Training, and recycling volunteer compost training. During the composting workshops, informational and educational materials were provided to 89 residents. DSWS staff contacted each of the 18 compost bin distribution

sites in the county on numerous occasions to ensure each location had an adequate supply of compost bins available for residents, especially in preparation for the start of the spring growing season.

**Recycling Investigations Unit** – Since the unit was established in 2005, 55,257 site visits and 5,314 formal investigations have been conducted. For the period from January 1, 2014 through March 31, 2014, 217 NOVs were issued to businesses and multi-family properties for infringements against the recycling regulations and Chapter 48. Seven (7) citations were issued to businesses and collection companies for the following reasons: four (4) citations to businesses for failure to recycle required recyclable materials; one (1) citation to a business for failure to provide containers for required recyclable materials; and two (2) citations to recycling/refuse collection companies for collecting solid waste after 9:00 p.m. and before 7:00 a.m. within 500 feet of an occupied residential structure.

**Commercial Recycling and Waste Reduction** – The SORRT Program conducted 2,281 site visits to businesses between January 1, 2014 and March 31, 2014. During this same period, staff resolved five (5) complaints, participated in 15 educational events reaching 480 people, distributed 501 desk-side recycling bins to businesses to help set-up and/or improve existing recycling programs, and responded to 99 requests for information ranging from educational materials to presentations for property managers, tenants, and employees. DSWS requested 587 businesses to file an Annual Business Recycling and Waste Reduction Report covering their recycling and solid waste activities for calendar year 2013. Of the 587 businesses required to submit a report, 11 large businesses and 128 medium and small businesses and property managers of multi-tenant facilities missed the filing deadlines. These businesses were forwarded to the Recycling Investigations Unit for enforcement action. The SORRT program held two on-line webinars to provide guidance to businesses interested in filing their 2013 annual recycling reports on-line. A total of 51 people, including business managers, owners, employees, property owners and managers representing numerous types of businesses, logged on to view and participate in the webinar. The SORRT program held two business recycling seminars, one on January 30 and the second one on March 27. The seminars provided business owners, managers, employees and property management staff with information on the County's recycling and solid waste regulations, roles and responsibilities, and how to set up a successful recycling program. A total of 49 people attended both seminars.

**Multi-Family Recycling and Waste Reduction** – Between January 1, 2014 and March 31, 2014, staff of the TRRAC Program conducted 341 on-site visits to multi-family properties to monitor the status and progress of their recycling programs and to recommend on-site recycling program improvements. Staff participated in 19 multi-family property educational events, reaching 490 people. These events included community recycling displays and several resident recycling presentations, staff trainings, resident board meetings, and lobby events. Staff also responded to 67 requests for information and distributed 2,218 multi-family recycling bins and 138 "slim jim" recycling containers to properties. The Multi-Family Annual Recycling and Waste Reduction Reports covering

calendar year 2013 recycling and solid waste activities were due on February 1. A total of 92 properties missed the February 1 filing deadline and were referred to the Recycling Investigations Unit for enforcement; subsequently, all 651 reports were submitted. County staff began the process of reviewing and field verifying all 651 reports. All ten versions of the updated "Recycling Made Easy" educational brochure (available in English and nine (9) other languages) were printed and are currently being distributed to residents during educational events and on-site visits. TRRAC staff also updated and reprinted a number of educational materials including the "How to Recycle Scrap Metal at Your Apartment or Condominium" brochure, commingled materials, mixed paper and scrap metal posters and stickers, and multi-family recycling magnets. TRRAC staff conducted a webinar highlighting online filing of the Annual Recycling Report for multi-family properties which was attended by 18 participants. The webinar provided participants with information and instruction on filing their property's annual recycling report on-line, in a continuing effort to reduce printing and mailing costs. TRRAC also hosted a Multi-Family Recycling and Waste Reduction Seminar on February 27 in Rockville at the Council Office Building. The seminar was attended by 25 multi-family property managers and staff and included a presentation by Susan Bawer, the Property Manager at The Bennington at Silver Spring.

**Mixed Paper Recycling** – Existing educational materials were distributed to residents at several events. Larger quantities of materials were also provided to homeowner associations and civic groups for their use and distribution.

**Volunteer Activities** – A total of 34 Recycling Program Volunteers, some of them participating in multiple events, contributed 332.5 hours of their time to support recycling activities from January 1, 2014 through March 31, 2014. Two volunteers provided over 262 hours of office assistance which included filing, computer data entry of paper-based annual recycling reports and compost bin distribution requests, and counting and bundling of educational materials for distribution at outreach events. Twenty-one volunteers participated in nine (9) community outreach events, including Water's Landing Elementary School Science Night, Martin Luther King, Jr.'s Day of Service, Montgomery County Home and Remodeling Weekend Expo, WSSC H2O Fest, Master Gardner's Grow It Eat It Seminar, Kites over Clarksburg and the St. Patrick's Day Parade. Through the course of these events, recycling volunteers provided almost 62 hours of direct service and interacted with 2,406 residents. Two recycling volunteers provided just over four (4) hours of neighborhood outreach to 476 residents through direct contact, monthly community newsletters and email blasts, which provided residents with recycling information and updates. Also, during this quarter, volunteer recruiting efforts continued with DSWS participation in two Volunteer Fairs hosted by Montgomery College's Takoma Park-Silver Spring and Germantown campuses. One recycling volunteer assisted DSWS staff at the Germantown Campus Volunteer Fair and helped to recruit 15 new volunteer applicants. In total, both Volunteer Fair events resulted in 36 new volunteer applicants and 132 volunteer prospects. In addition to the Volunteer Fair, eight (8) new volunteers, nine (9) new applicant volunteers, and 17 prospect volunteers were recruited during this

quarter. Eight (8) volunteers attended a New Volunteer Orientation session and five (5) recycling volunteers attended the Volunteer Composting and Grasscycling Volunteer Training session. This special training session was offered in an effort to provide recycling volunteers an in-depth understanding of the composting process which will better prepare volunteers participating in composting and grasscycling workshops and outreach events.

## **PILOT PROGRAMS**

**Cooperative Collection/Alternative Collection** – The SORRT Program continued to monitor all three Cooperative Collection Projects in Silver Spring to ensure that the participants are recycling properly and is currently reviewing pricing information to determine whether their contracts can be renegotiated.

**EOB Cafeteria Food Waste Recycling Model Project** – DSWS continued to monitor the model food waste recycling collection project for the EOB cafeteria. During the course of the project to-date (November 1, 2011 – February 28, 2014) in which pre-consumer food waste is separated for recycling collection, a total of 37.8 tons of food waste has been collected and recycled. DSWS continues to monitor the collection area daily and checks for feedback from cafeteria staff on a regular basis.

## **FACILITY ACTIVITIES**

**Resource Recovery Facility (RRF)** – The RRF processed a total of 132,758 tons for the quarter, or an average of 1,475 tons per day. During this time 15 tours of the plant were given. The plant exported 71,075,000 kilowatt-hours to the power grid. About 2,256 tons of ferrous material was recovered from the ash and recycled. During the quarter, Unit #1 had an evaporator tube leak, two economizer tube leaks, and a superheater tube leak Unit #2 had two evaporator tube leaks, two economizer tube leaks and twice experienced plugged economizer section. Unit #3 experienced a plugged economizer section, and economizer tube leak, and a feeder cylinder problem. Unit #3 had its scheduled Spring outage during which the upper evaporator tube sections were replaced with spiral wound inconnel tubes for added corrosion protection in this area of the boiler to help prevent future evaporator tube leaks and failures.

**Materials Recovery Facility (MRF)** – The scale house window was replaced. Mechanics determined that the older Hyster forklift needed a new engine and mast repairs. New lacings were installed on conveyor belt that carries material from pre-sort platform to ferrous magnet conveyor. New lacings were installed for conveyor belt taking material to one of the two pre-sort conveyors. Added another outlet to future server closet and also installed plywood frame for server connections when the Recycling Center becomes

hardwired for internet service. Contractor returned the older Hyster forklift with repairs and new engine. Chain on conveyor carrying material to the pre-sort platform broke on two separate occasions, necessitating replacement of many chain links and cotter pins.

**Oaks Landfill** – The 2.4 Megawatt landfill gas-to-energy (LFGE) facility continues to operate.

On January 24, 2014, DEP met with SCS to discuss the next steps to address low level Volatile Organic Compound (VOC) groundwater contamination in the limited area of concern, northwest of the fill area. The remediation plan includes enhancing the existing methane gas collection system by installing additional extraction wells, since the VOCs are partially associated with gas migration, and adding more groundwater monitoring wells in the area of concern. This work is planned to begin as soon as DEP gets approval from MDE regarding the remedial approach and design of the extraction wells.

**Gude Landfill** – The 0.8 Megawatt landfill gas-to-energy (LFGE) facility continues to operate. DSWS and EA Engineering continued with the preparation of the Assessment of Corrective Measures (ACM) Report for submittal to MDE on January 31, 2014.

The Land Exchange with M-NCPPC was discussed at the Government Operations and Fiscal Policy/Transportation, Infrastructure, Energy and Environment (GO/T&E) Committees on March 31, 2014. The land disposition regulations require the Council to affirm by resolution that the property to be exchanged (i.e. the property being swapped in this case) is not needed for any other public use. The Council approved the exchange of land and this process should be finalized very soon.

DSWS is currently coordinating with the County's contractor, SCS Engineers, to develop corrective actions to mitigate the methane gas exceedences along the northwest property boundary. SCS Engineers completed dewatering activities to eliminate perched liquid captured in the dewatering sumps within the landfill. If dewatering does not prove to be effective, then additional extraction wells or a ventilation trench may be installed to capture fugitive methane gas and decrease the exceedences along the northwest property boundary.

The monthly meetings between GLCC (i.e. the community) and DSWS will continue throughout the remediation process at the Landfill.

**Beantown Dump Methane Gas Assessment** – The Beantown Dump is an approximately 35-acre site located in Rockville, Maryland. The site is believed to extend from Dover Road (northwest) to the crest of the hill at the 700 block of East Gude Drive near Zamora's Auto Body Shop. The site reportedly operated from the 1920s until about 1965 when the Gude Landfill opened.



Environmental Resources Management (ERM) conducted a methane gas pump test at the Gude Self Storage, which is constructed over the former Beantown Dump Site. The assessment included a complete global assessment of methane gas to assure a reasonable understanding of the concentrations and distribution of subsurface methane concentrations on the Gude Self Storage property, a pump test to characterize the generation rate of methane gas on the Gude Self Storage property, and an evaluation of remedial options to reduce subsurface methane gas concentrations.

The methane gas pump test and evaluation of gas regeneration rates indicated that gas generation from the waste mass is continuing in some areas despite the age of the waste. There is a significant volume of methane gas present beneath the paved areas on the Gude Self Storage property. However, methane is not present in the upper three to four feet of soils at the Gude Self Storage property. The soil along with the compacted asphalt pavement has limited the vertical migration of gas from the subsurface into overlying storage units.

DSWS agreed to have ERM install wind-driven turbines to the existing passive venting wells for improving the management of methane gas in the area. ERM started installing the wind-driven turbine to the existing passive venting wells on April 15, 2014. During the first phase of this work, ERM will install wind-driven turbines to the existing passive venting wells that have exceeded the lower explosive limit (LEL) for methane gas. Over twenty passive venting wells will be enhanced by installing the wind-driven turbines during this first phase of work.

**Solid Waste Transfer Station** – Covanta shipped 111,226 tons of processible waste via rail from the Transfer Station for the third quarter of FY 14 compared to 123,025 for the same period last year.

The inbound radiation detectors had 30 total alarms in the third quarter. Twenty five (25) alarms by vehicles that were identified as containing low levels of medical isotopes with short half-lives in trash; two (2) alarms were drivers who had undergone recent medical tests; and one (1) false alarm. Two (2) alarms were rejected loads because of isotope's we cannot accept Ra 226 and MN 54.

The Public Unloading Facility radiation detectors had five (5) alarms. All alarms involved drivers or passengers who had undergone recent medical tests and/or treatment involving radioactive isotopes and residual radiation.

**Transfer Station Enforcement** – Under Chapter 48 of the Montgomery County Code, a total of 270 enforcement actions were issued during the reporting period. The enforcement composition breakdown includes:

Code Section	Description	Verbal	NOV	Citation	TOTAL
48-05	<i>Permit required to collect or dispose of solid waste</i>	37	0	37	74
48-05(3)(d)	<i>Delivery of solid waste acceptable for recycling</i>	2	0	2	4
48-10	<i>Deposit at other than an approved place – Prohibited</i>	0	0	0	0
48-11	<i>Illegal dumping, dumping in another's container, dumping solid waste on a public right-of-way</i>	0	1	0	1
48-18(a)	<i>Unlicensed Company/Tags</i>	1	4	29	34
48-19(2)(a)	<i>Improper or no tarps on resident vehicle</i>	0	0	0	0
48-19(a)(2)b	<i>Transporting solid waste without a canvas or tarp covering the load tightly Commercial</i>	0	0	0	0
48-20(a)	<i>Un-permitted Vehicle of a Licensed Company</i>	113	4	0	117
48-20(b)	<i>Transporting solid waste without a canvas or tarp covering the load tightly</i>	28	4	6	38
48-22	<i>Out of State Trash being disposed in MC</i>	0	0	2	2
	<b>TOTALS</b>	<b>181</b>	<b>13</b>	<b>76</b>	<b>270</b>

**Site 2 Landfill Properties** – During the quarter Solid Waste Services staff met with the construction firm and engineer to perform the one year warranty inspection of the pond improvements on the property. All construction work is now completed staff is in the process of closing out the final payments to the engineer after which the project will be closed. Staff also requested assistance from DEP's horticulturist to evaluate the *krigia dandelion* habitat later this spring.

**Yard Trim Compost Facility** – The facility received 3,717 tons of material for composting this quarter; this compares with 4,844 tons of materials received during the same period last year. No material was diverted to back-up composting facilities this quarter. There were 5,862 cubic yards of bulk LeafGro™ shipped this quarter; compared with 6,775 cubic yards for the same period last year.

**Bagging Operation** – 120,750 bags of LeafGro™ were shipped to distributors this quarter. This compares with 107,204 bags shipped during the same period last year. (Each bag is 1.5 cubic feet weighing 45 lbs.)

## **OUT-OF-COUNTY HAUL**

**Old Dominion, Richmond, VA** – In the third quarter of FY14 approximately 36,025 tons of ash residue were transported to the Old Dominion Landfill for ash recycling and metal recovery. The Ash is screened into two grades for use as road base and alternate daily cover within the confines of the landfill owned by Republic Services. Metals are also removed from the ash both at the RRF and during the screening process at Old Dominion Landfill.

**Perry Hall Maryland** – Approximately 2,072 tons of asphalt, soil, concrete, and brick and block and other non-processibles were sent to the Honeygo Run Recycling site in Perry Hall, Maryland, for construction and demolition debris recycling for the third quarter of FY14.

# GENERAL INFORMATION

## Important Telephone Numbers

General information on solid waste	311 or 240-777-0311
Customer Service	311 or 240-777-0311
Transfer Station	240-777-6560 (County Office) 301-916-3031 (Covanta) 301-330-2840 (MES)
Materials Recovery Facility	240-777-6591 (County Office) 301-417-1433 (MES)
Resource Recovery Facility	240-777-6494 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DSWS	<a href="http://www.montgomerycountymd.gov/solidwaste">www.montgomerycountymd.gov/solidwaste</a> <a href="http://www.montgomerycountymd.gov/recycling">www.montgomerycountymd.gov/recycling</a> <a href="http://www.montgomerycountymd.gov/hazardouswaste">www.montgomerycountymd.gov/hazardouswaste</a> <a href="http://www.montgomerycountymd.gov/useitagain">www.montgomerycountymd.gov/useitagain</a> <a href="http://www.montgomerycountymd.gov/yardtrim">www.montgomerycountymd.gov/yardtrim</a> <a href="http://www.montgomerycountymd.gov/veggieoil">www.montgomerycountymd.gov/veggieoil</a>

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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Division of Solid Waste Services  
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Rockville, MD 20850  
Tel: 240-777-6459  
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Email: [serena.bell@montgomerycountymd.gov](mailto:serena.bell@montgomerycountymd.gov)

# SOLID WASTE FACTS IN A NUTSHELL

<b>TOPIC OR FACILITY</b>	
Latest Tonnage of Materials Recycled in Montgomery County	592,148 (CY12)
Latest Recycling and Waste Diversion Rate Reported in Montgomery County	59.8% (CY12)
Recycling Goal	70% by December 31, 2020
Resource Recovery Facility (RRF)	Permitted Capacity = 657,000 tons per calendar year (based on 5,500 BTU/lb waste)
Yard Trim Compost Facility	<p>Under the Sugarloaf Settlement Agreement, operations are limited to the receipt of 77,000 tons per fiscal year.</p> <p>In FY13, 64,241.27 tons of yard trim were received at the Dickerson Facility.</p>
# Residences receiving trash collection by County contractors	91, 378
# Residences receiving collection of recyclables in blue bins and yard trim collection	213,393
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2017 including an approval option for a five-year renewal. (Service started October 20, 1997.)

## **GLOSSARY OF ACRONYMS**

ACM	Assessment of Corrective Measures Work Plan
BTU	British Thermal Unit
CEMS	Continuous Emissions Monitoring System
CMTs	Corrective Measure Technologies
DAFIG	Dickerson Area Facilities Implementation Group
DEP	Department of Environmental Protection
DSWS	Division of Solid Waste Services
ERM	Environmental Resources Management
ERP	Enterprise Resource Planning
FY	Fiscal Year
GLCC	Gude Landfill Concerned Citizens
HHW	Household Hazardous Waste
kWh	Kilowatt-hours
LEL	Lower explosive limit
LFGE	Landfill Gas-to-Energy
MDE	Maryland Department of the Environment
MES	Maryland Environmental Services
M-NCPPC	Maryland-National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NOV	Notice of Violation
OMB	Office of Management and Budget (Montgomery County)
PPM	Parts per million
RRF	Resource Recovery Facility
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
SVO	Straight Vegetable Oil
TRRAC	Think Reduce and Recycle at Apartments and Condominiums
VOC	Volatile Organic Compound
WVO	Waste Vegetable Oil
YTD	Year-To-Date