



Department of Environmental Protection  
Montgomery County, Maryland

***DIVISION OF SOLID WASTE SERVICES***

***QUARTERLY REPORT***

***APRIL, MAY AND JUNE 2014***  
(4<sup>th</sup> Quarter of FY14)



The Waste Reduction and Recycling Section of the Division of Solid Waste Services continued its efforts to increase awareness of the County's goal to reduce and recycle 70% by 2020, encourage recycling, and offer additional opportunities to recycle more now.

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# **OVERVIEW**

## **Tonnage at a Glance**

The following table shows key material flows during the months of April, May, and June including the fiscal year to date (FY YTD), and the same calendar month in the two (2) prior fiscal years. (County Fiscal Year 2015 began July 1, 2014.)

<b>FACILITY</b>	<b>Apr FY14</b>	<b>FY14 YTD</b>	<b>Apr FY13</b>	<b>Apr FY12</b>
Materials Recovery Facility <sup>(1)</sup>	6,147 tons	60,539 tons	6,035 tons	5,776 tons
Brunswick Landfill Facility <sup>(2)</sup>	0 ton	20 tons	0 ton	0 ton
Resource Recovery Facility <sup>(3)</sup>	50,680 tons	471,495 tons	42,680 tons	42,094 tons
Yard Trim Compost Facility	6,671 tons	56,923 tons	5,530 tons	4,989 tons
Honeygo Run Reclamation <sup>(4)</sup>	4,002 tons	24,181 tons	6,116 tons	4,294 tons
Ash Recycling (Old Dominion LF) <sup>(5)</sup>	14,347 tons	135,106 tons	11,140 tons	11,967 tons

<b>FACILITY</b>	<b>May FY14</b>	<b>FY14 YTD</b>	<b>May 13</b>	<b>May FY12</b>
Materials Recovery Facility <sup>(1)</sup>	6,225 tons	66,764 tons	6,507 tons	6,608 tons
Brunswick Landfill Facility <sup>(2)</sup>	0 ton	20 tons	0 ton	0 ton
Resource Recovery Facility <sup>(3)</sup>	54,026 tons	525,521 tons	48,695 tons	48,979 tons
Yard Trim Compost Facility	6,433 tons	63,356 tons	6,114 tons	5,429 tons
Honeygo Run Reclamation <sup>(4)</sup>	5,065 tons	29,246 tons	4,669 tons	3,863 tons
Ash Recycling (Old Dominion LF) <sup>(5)</sup>	15,441 tons	150,547 tons	13,745 tons	13,570 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	Jun FY14	FY14 YTD	Jun FY13	Jun FY12
Materials Recovery Facility <sup>(1)</sup>	6,087 tons	72,851 tons	6,063 tons	6,442 tons
Brunswick Landfill Facility <sup>(2)</sup>	0 ton	20 tons	0 ton	0 ton
Resource Recovery Facility <sup>(3)</sup>	52,665 tons	578,186 tons	51,714 tons	51,519 tons
Yard Trim Compost Facility	5,754 tons	69,110 tons	5,792 tons	4,436 tons
Honeygo Run Reclamation <sup>(4)</sup>	3,820 tons	33,066 tons	4,592 tons	2,249 tons
Ash Recycling (Old Dominion LF) <sup>(5)</sup>	14,473 tons	165,020 tons	13,392 tons	15,294 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 April, May and June program staff:

- Researched properties and entered billing changes into the database;
- Prepared monthly house counts for collection contractors;
- Processed vacancy refunds payable in April, May and June;
- 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 April, May and June 2014 totaling \$3,793,070.06 (an increase of \$365,168.83 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 April, May and June 2014 tons to monies posted in ERP, as well as to the total dollars charged in Paradigm;
- Completed the year end process per the County policy; 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, June 10, 2014. Topics discussed included the following: DEP Complaint Report, SWAC and Facilities Update. The next quarterly DAFIG meeting will be held on September, 9, 2014.

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

April 2014 – Meeting held. No quorum. Discussed the collection system in Subdistrict B (Up-County) where the County provides recycling collection services for the 122,000 homes there; refuse collection is provided by private collectors hired by individual homeowners or HOAs.

May 2014 – Meeting cancelled.

June 2014 – Steve Bossotti, Covanta Energy Vice President for Organic Growth & Innovation spoke about metal recovery from and uses for waste-to-energy (WTE) ash. Chair, Paula Jenson introduced new members Betty Marciano and Jessica Weiss.

## **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.

April 2014	39
April 2013	43
Difference	-4

May 2014	58
May 2013	41
Difference	+17

June 2014	77
June 2013	42
Difference	+35

**Resident Service Requests:**

*April 2014*

22 gallon bin pick-up	585
22 gallon bin request	1,830
Bulk trash requests	2,100
Cart pick-up	19
Cart repair	285
65 gallon cart	126
35 gallon cart	129
Field check	329
Literature	219
Property damage/missing	27
Same day	153
Scrap Metal request	1,617

*May 2014*

22 gallon bin pick-up	591
22 gallon bin request	1,765
Bulk trash requests	2,539
Cart pick-up	35
Cart repair	277
65 gallon cart	133
35 gallon cart	118
Field check	339
Literature	257
Property damage/missing	26
Same day	208
Scrap Metal request	1,905

*June 2014*

22 gallon bin pick-up	360
22 gallon bin request	1,156
Bulk trash requests	2,048
Cart pick-up	17
Cart repair	252
65 gallon cart	106
35 gallon cart	85
Field check	174
Literature	248
Property damage/missing	14
Same day	193
Scrap Metal request	1,661

## **Outreach:**

### Survey Cards:

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

In **April**, 672 cards were dropped off with a return rate of 16.071%.

	Excellent	Good	Average	Fair	Poor
Recycling Programs	94%	4%	2%	0%	0%
County Staff	77%	19%	4%	0%	0%
Recycling Crews	93%	7%	0%	0%	0%

In **May**, 493 cards were dropped off with a return rate of 16.227%.

	Excellent	Good	Average	Fair	Poor
Container Delivery	95%	5%	0%	0%	0%
Collection Services	73%	24%	3%	0%	0%
DSWS Staff	96%	4%	0%	0%	0%

In **June**, 1,004 cards were dropped off with a return rate of 17.829%.

	Excellent	Good	Average	Fair	Poor
Container Delivery	92%	6%	2%	0%	0%
Collection Services	72%	21%	5%	1%	1%
DSWS Staff	87%	11%	2%	0%	0%

## **Collection Section Enforcement Actions:**

### *April:*

- Citations: No citations were issued.
- Notices of Violation: One (1) notice of violation was issued:
  - 48-23 Leaving Collection Vehicle running and unattended.

### *May:*

- Citations: No citations were issued.
- Notices of Violation: One (1) notice of violation was issued:
  - 48-20(a) did collect and/or transport solid

*June:*

- Citations: Two (2) citations were issued:
  - 48-19(a) did collect and/or transport solid waste without a valid collection tag attached to the vehicle.
  - 48-21(b) collecting solid waste prior to 7:00 a.m.
  
- Notices of Violation: Two (2) notices of violation were issued:
  - 48-23 Leaving Collection Vehicle running and unattended
  - 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>April 2014</b>	<b>May 2014</b>	<b>June 2014</b>
Unique Visitors	21,233	23,652	20,031
Page Loads	104,807	110,070	94,612

Email List Memberships

<b>Topic</b>	<b>Subscribers (new this month)</b>		
	<b>April 2014</b>	<b>May 2014</b>	<b>June 2014</b>
Holiday Reminder	26,038 (150)	26,126 (245)	26,161 (179)
HHW Announcements	11,894 (83)	11,981 (150)	12,028 (128)
Facility Updates	6,442 (65)	6,488 (84)	6,522 (85)
Electronics recycling	9,501 (101)	9,592 (142)	9,675 (145)
Go Green	4,396 (42)	4,432 (66)	4,475 (71)
Civic Loop	4,424 (13)	4,405 (12)	4,407 (29)
SORRT Newsletter	3,126 (10)	3,115 (7)	3,090 (23)
TRRAC	1,881 (13)	1,875 (6)	2,111 (280)
Quarterly Report	2,468 (37)	2,491 (42)	2,524 (52)
Paper Shredding Events	6,716 (102)	6,826 (146)	6,936 (157)
<b>Total Subscriptions</b>	<b>76,886 (616)</b>	<b>77,331 (900)</b>	<b>77,929 (1,149)</b>



Most Popular Web Pages

April 2014	May 2014	June 2014
1. Drop off hours and events	Drop off hours and events	Drop off hours and events
2. DSWS home page	How do I...	How do I...
3. How do I...	DSWS home page	Transfer Station – home page
4. Web Store – home page	Recycling, Trash, and Yard Trim Programs - home	Web Store – home page
5. Recycling, Trash, and Yard Trim Programs - home	Transfer Station – home page	Recycling, Trash, and Yard Trim Programs - home
6. Bulk Trash	Web Store – home page	Bulk Trash
7. Transfer Station – home page	Bulk Trash	DSWS home page
8. Web Store – Single-family recycling containers	Web Store – Single-family recycling containers	Web Store- Single-family recycling containers
9. Scrap Metal recycling	Holidays	Scrap Metal recycling
10. 22-gal blue bin	Scrap Metal recycling	22-gal blue bin

**WASTE MINIMIZATION**

Product Recycled	Apr 2014	FY14 YTD	Apr FY13	Apr FY12
TV's and PC's	172 tons	1,496 tons	159 tons	132 tons
Propane Tanks	0 ton	15 tons	0 ton	2 tons
Textiles	11 tons	104 tons	19 tons	11 tons
Construction Materials (Don't Dump – Donate)	2 tons	16 tons	3 tons	5 tons
Vehicle Batteries	8 tons	68 tons	11 tons	4 tons
Scrap Metal	396 tons	3,778 tons	401 tons	395 tons

Product Recycled	May 2014	FY14 YTD	May FY13	May FY12
TV's and PC's	141 tons	1,637 tons	151 tons	138 tons
Propane Tanks	2 tons	17 tons	5 tons	2 tons
Textiles	13 tons	117 tons	14 tons	12 tons
Construction Materials (Don't Dump – Donate)	0 ton	16 tons	2 tons	4 tons
Vehicle Batteries	8 tons	76 tons	8 tons	6 tons
Scrap Metal	570 tons	4,348 tons	495 tons	417 tons

Product Recycled	Jun 2014	FY14 YTD	Jun FY13	Jun FY12
TV's and PC's	172 tons	1,809 tons	197 tons	153 tons
Propane Tanks	0 tons	17 tons	2 tons	3 tons
Textiles	11 tons	128 tons	14 tons	11 tons
Construction Materials (Don't Dump – Donate)	2 tons	18 tons	2 tons	5 tons
Vehicle Batteries	7 tons	83 tons	9 tons	6 tons
Scrap Metal	535 tons	4,883 tons	437 tons	509 tons

## **HAZARDOUS WASTE PROGRAMS**

**Household Hazardous Waste (HHW) Collection** – There were a total of 28,309 patrons to the program in the fourth fiscal quarter (April, May, June). During normal business hours we had 27,636 patrons; after 5:00 p.m., we had 673 patrons.

**Small Quantity Generator/ECOWISE Program** – There were 40 ECOWISE participants in the fourth quarter of FY14 that discarded 4.20 tons of business related hazardous materials during the quarter.

## **WASTE REDUCTION**

**Bicycle Recycling** – “Bikes for the World” removed 5 tons of bikes in the fourth fiscal quarter for restoration and shipment to countries worldwide.

**Paint Reduction** – The free paint program giveaway program began seasonal operations during the fourth fiscal quarter which resulted in 286 gallons of paint given to Montgomery County Residents. There were 264.32 tons of paint donated to Arts for Humanity (Honduras), however no other paint was donated to other non-profit organizations as there were no other requests for paint donations during the fourth fiscal quarter. We solidified 28 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 fourth fiscal quarter, 9 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 was no emission limit exceedence during the quarter.

**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 April was 5.53 inches; May 6.2 inches and June 2.69 inches.

## **WASTE REDUCTION AND RECYCLING**

**Maryland Recycling Act (MRA) Recycling Rate** – Maryland Department of the Environment (MDE) announced in January its decision to not allow reuse of municipal solid waste (MSW) incinerator ash as alternate daily cover (ADC) in the state of Maryland, and further to not allow these tonnages to be counted as recycling in the MRA Recycling Tonnages. DEP met with MDE to understand the critical issues. This decision was based upon health risks associated with the use of coal fly ash as ADC, and MDE’s belief that MSW ash generated by incinerators is similar in characteristic, and therefore would display similar health risks if used as ADC. This decision would have had significant negative

impact on Montgomery County's recycling tonnages and recycling rate, since our MSW ash from the Resource Recovery Facility (RRF) is recycled and used in part as ADC at permitted landfill facilities in Virginia. In June, DEP submitted a request to MDE that they continue to include our MSW incinerator ash recycled as ADC in our MRA Recycling Tonnages, and submitted supporting documentation from Virginia Department of Environmental Quality showing their approval of the use of Montgomery County's MSW incinerator ash recycled as ADC at Virginia landfills, as well as the best management practices that Republic Services (owners of the landfills) use in handling the County's MSW incinerator ash as ADC. The County's request and documentation is being reviewed by MDE.

**Maryland Recycling Act (MRA) Source Reduction Credit Report** – DEP submitted its CY 2013 Source Reduction Credit Report and supporting documentation based on all of our waste reduction initiatives and programs to MDE for their review and approval. All of DEP's waste reduction efforts should result in a 5 percent Source Reduction Credit for Montgomery County. This 5 percent credit is the highest Source Reduction Credit allowable, and will be added to the County's Recycling Rate (which is also still pending MDE review) to equal the County's Waste Diversion Rate.

**Public Education and Outreach** – DSWS staff and Recycling Program Volunteers participated in 121 education and outreach events and activities during April, May and June 2014, reaching an estimated audience of 11,630 people. DSWS coordinated and conducted three (3) confidential paper shredding/recycling and clothing/household items donation collection events during this quarter. The events were held at Sherwood High School on Saturday, April 5, White Oak Middle School on Sunday, May 4, and at Office Paper Systems on Sunday, June 8. A total of 34 tons of confidential paper was collected for shredding and recycling and 0.7 tons of empty cardboard boxes were recycled. In addition, residents brought clothing, furniture and other household items to fill nearly two box trucks with items for donation and reuse. A total of 1,427 vehicles came through these three events. DSWS hosted the 15<sup>th</sup> annual Montgomery County Recycling Awareness Week from May 19-23, 2014. During this week, DSWS staff raised awareness of recycling and conducted educational and interactive recycling assemblies to students and staff at 12 private schools. On May 21, DSWS held the annual recycling achievement recognition ceremony and recognized the contributions made by 10 recycling program volunteers and residents, 20 multi-family properties, staff, management and residents, and 50 businesses, organizations, commercial properties, management, staff and employees for their efforts to increase and maximize waste reduction, recycling, and buying recycled efforts. Mr. John Kelly, columnist for *The Washington Post*, was the keynote speaker and thanked the award recipients for their efforts. During the recognition ceremony, County Executive Isiah Leggett showed the first element of the multi-media education campaign to highlight the County's 70 percent recycling goal and motivate everyone living, working and visiting in the County to recycle more materials. DSWS staff continued to meet with personnel from the Tiger Woods Foundation to discuss recycling requirements, procedures and education for the 2014 Quicken Loans National

Golf Tournament which was held June 23-29, 2014 at Congressional Country Club in Bethesda. DSWS loaned the use of nearly 300 Clear Stream event recycling containers to the tournament to increase the opportunities for spectators, players, staff and vendors to recycle during the tournament. DSWS staff also provided on-site education to employees and volunteers who were responsible for the collection and emptying of recycling and trash containers. On Saturday, June 21, DSWS coordinated, in conjunction with NBC4, Montgomery College, Shred-It and Unity Disposal and Recycling, the NBC4 Community Paper Shredding/Recycling Event. A record number of vehicles (2,300) drove through the event and 40 tons of confidential paper was shredded and recycled and over 2 tons of empty cardboard boxes were recycled.

**On-Site Composting and Waste Reduction Activities** – A total of 883 compost bins were distributed between April 1, 2014 and June 30, 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 seven (7) community events as well as during DSWS-led composting workshops held at Dawson’s Market in Rockville for the Montgomery County Sustainability Network, Good Earth Garden Market in both Potomac and Olney, and at the Habitat for Humanity ReStore in Gaithersburg. During the composting workshops, informational and educational materials were provided to 164 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. In June, Dawson’s Market in Rockville was added to the list of compost bin pick-up locations bringing the total number of compost bin distribution locations to 19 in the county.

**Recycling Investigations Unit** – Since the unit was established in 2005, 56,950 site visits and 5,497 formal investigations have been conducted. For the period from April 1, 2014 through June 30, 2014, 169 NOVs were issued to businesses and multi-family properties for infringements against the recycling regulations and Chapter 48. Sixteen (16) citations were issued to businesses and collection companies for the following reasons: thirteen (13) citations to businesses for failure to recycle required recyclable materials; one (1) citation to a business for failure to provide and maintain an approved container for the storage of solid waste; one (1) citation to a business for failure to properly maintain premises by permitting solid waste to be stored outside of storage containers; and one (1) citation to a recycling/refuse collection company 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** – Staff of the SORRT Program conducted 2,250 site visits to businesses between April 1, 2014 and June 30, 2014. During this same period, staff resolved 10 complaints, participated in 59 educational events reaching 4,392 people, distributed 1,301 desk-side recycling bins and “slim jim”

recycling containers to businesses to help set-up and/or improve existing recycling programs, and responded to 98 requests for information ranging from educational materials to presentations for property managers, tenants, and employees. On June 30, the SORRT program hosted a business recycling seminar on food scrap recycling at the Montgomery County Chamber of Commerce in Rockville. Eighteen (18) people, including property managers, business owners, and staff attended the seminar and learned about the opportunities and future of food scrap recycling in the county and region. Participants were given a tour of the Division's food scrap recycling demonstration project in the EOB Wellbeing Café. DSWS staff also conducted additional training sessions to certify/re-certify janitorial service and maintenance companies as part of the Division's continued efforts to ensure that all people in the chain of custody of recyclable materials are educated about recycling and are made aware of the County's recycling regulations. As of June 30, 2014 six (6) training sessions had been conducted and six (6) janitorial/maintenance service companies had been certified. Staff is in the process of coordinating training sessions for all employees (500+) of Red Coats, Inc., one of the largest providers of janitorial services to businesses in Montgomery County.

**Multi-Family Recycling and Waste Reduction** – Between April 1, 2014 and June 30, 2014, TRRAC Program staff conducted 765 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 20 multi-family property educational events, reaching 849 people. These events included community recycling displays and several resident recycling presentations, staff trainings, resident board meetings, and lobby events. Staff also responded to 71 requests for information, distributed 1,808 “baby blue” multi-family recycling bins and 31 “slim jim” recycling containers to properties, and resolved six complaints. DSWS staff continued the process of reviewing, field verifying, and approving each of the 653 Multi-Family Annual Recycling and Waste Reduction Reports submitted for calendar year 2013. TRRAC staff hosted a Multi-Family Recycling and Waste Reduction Seminar on Thursday, April 10 at Discovery Communications in Silver Spring. The seminar was attended by 36 multi-family property managers and staff and included presentations by Molly King, Lifestyles Program Director at The Blairs properties, and members of the Homecrest House Green Team (Larry Faulkner, Lisa Castillo, Nella Taylor, Lynn Blood, and Judith Grominger). TRRAC designed and produced a new educational recycling door hanger to educate multi-family residents about the County's 70 percent recycling goal and the types of materials that are recyclable. TRRAC staff began distributing the new door hangers to multi-family properties.

**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 65 Recycling Program Volunteers, some of them participating in multiple events, contributed almost 266 hours of their time to support recycling activities from April 1, 2014 through June 30, 2014. One (1) volunteer provided over 17 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. Ten (10) volunteers participated in 6 (six) community outreach events, including the Jack and Jill Montgomery County Chapter recycling day, Rockville Science Day, the Montgomery County Master Gardener Grow It! Eat It! event, the Montgomery County Housing Fair, Rockville Quarry Earth Day and Celebrate Gaithersburg Day. Through the course of these events, recycling volunteers provided almost 31 hours of direct service and interacted with 808 residents. On April 9th, DSWS recognized the contributions and efforts of the Division's dedicated corps of recycling volunteers for their support and efforts to provide recycling outreach to the community during the 2014 Volunteer and Appreciation Ceremony. Twenty-four (24) volunteers attended the event with nine volunteers receiving a 20-hour service pin for contributing 20 hours or more of service to the recycling volunteer program. During this quarter, 48 volunteers participated in four paper shredding/recycling and clothing/household item donation collection events. In addition to the various outreach events, four (4) new volunteers, (4) four new applicant volunteers, and 14 prospect volunteers were recruited during this quarter. Two (2) *New Volunteer* orientation sessions were conducted with 12 new volunteers in attendance. A *Team Lead Volunteer* training session was also offered with one volunteer in attendance. This special training session was offered in an effort to provide recycling volunteers with in-depth training and increased responsibilities while participating at outreach events. Lead volunteers assist with check-in and closing procedures, event volunteer assignments, and provide leadership and peer guidance to other volunteers.

## **SPECIAL PROJECTS**

**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 – May 31, 2014), in which pre-consumer food waste is separated for recycling collection, a total of 43.6 tons of food waste has been collected and recycled. DSWS continues to monitor the collection area daily and check for feedback from cafeteria staff on a regular basis. DSWS issued an amendment to continue the collection of food scraps for recycling through June 30, 2015.

## **FACILITY ACTIVITIES**

**Resource Recovery Facility (RRF)** – The RRF processed a total of 157,371 tons for the quarter, or an average of 1,729 tons per day. During this time 17 tours of the plant were given. The plant exported 84,044,000 kilowatt-hours to the power grid. About 2,967 tons of ferrous material was recovered from the ash and recycled. During the quarter, Unit #1 had its scheduled minor outage. Unit #1 also was taken off line to make grate bar repairs. Unit #2 was taken off line on two different occasions for grate bar repairs. Unit #2 also had its scheduled major outage wherein the upper evaporator sections were replaced with new spiral wound inconel tubing and the scrubber was tested and sections of plating replaced to prevent possible future leakage from normal wear. Unit #3 experienced an external tube leak at the economizer.

**Materials Recovery Facility (MRF)** – The front of the building was re-caulked. The head pulley was repositioned on #2 conveyor to eliminate belt tracking. The motor was replaced at the perforator and flattener position. The PET thermoform grant agreement ended, in accordance with the term of the agreement. The conveyor belt was repaired under the ferrous magnet. The trial staffing plan began with two mechanics performing preventive maintenance and repair work during non-operational hours. Curtains were replaced on all four sites at position #30. Rubber chutes were replaced on #29 to #30. Repairs were made to several outside cobra lights. Contractor conducted air flow testing for the air classifier, resulting in sealing discharge connection to reduce air flow leakage from the main fan and installing squirrel cages on the booster motors. The head pulley was replaced on the conveyor bringing material to the pre-sort station.

**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. MDE has approved the revised gas extraction plan for the Oaks NEI. MDE has increased the scope of the expansion of the proposed soil gas extraction system, which includes the originally proposed six extraction wells and four additional extraction wells between GEW-2, GEW-3 and GEW-4. In addition to the installation of the ten extraction wells, an additional groundwater monitoring well in the vicinity of NES-1 and OW-06 will be added to further evaluate the potential cross-contamination between the upper-most and deeper aquifers. Gas extraction wells and the groundwater monitoring well drilling started on June 24, 2014 and work continued until the month end. Oil and grit facility concrete expansion work is scheduled to start on July 16, 2014. On June 26, 2014, in accordance with the new general discharge permit requirements for stormwater discharges, DSWS prepared a formal Notice of Intent (NOI) and revised Stormwater



Pollution Prevention Plan (SWPPP) for Oaks Landfill. This NOI and SWPPP were submitted in advance of the June 30, 2014 deadline.

**Gude Landfill** – The 0.8 Megawatt landfill gas-to-energy (LFGE) facility continues to operate. MDE continued with their review of the Assessment of Corrective Measures (ACM) Report submitted to MDE on January 31, 2014.

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. Dewatering continued, and the methane levels in the probes decreased slightly. Two (2) additional wells, using an alternative design with deep screening and a seal to prevent shallow water infiltration, were installed along the perimeter of the landfill in late May 2014 to provide more coverage to assist in mitigating the methane at gas monitoring wells 5 and 6. Methane readings at the monitoring wells showed a marked decrease in methane once the wells were activated which led to no methane being detected along the Northwest slope. Since activation of the new wells, monitoring wells 5 and 6 have remained in compliance.

The monthly meetings, upon request, between GLCC (i.e. the community) and DSWS will continue throughout the remediation process at the Landfill. Written updates are provided during months when there is insufficient new information to justify a meeting.

On June 26, 2014, in accordance with the new general discharge permit requirements for stormwater discharges, DSWS submitted a formal Notices of Intent (NOI) and revised Stormwater Pollution Prevention Plan (SWPPP) for Gude Landfill. This NOI and SWPPP were submitted in advance of the June 30, 2014 deadline.

**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. Twenty-three (23) of the eighty-seven (87) wells were enhanced during Phase I of the project. Phase II is expected to commence once the next round of quarterly methane monitoring results are collected and analyzed. The next round of quarterly sampling will take place in August 2014.

**Solid Waste Transfer Station** – Covanta shipped 144,310 tons of processible waste via rail from the Transfer Station for the fourth quarter of FY 14 compared to 144,498 for the same period last year.

The inbound radiation detectors had 38 total alarms in the fourth quarter. Twenty nine (29) alarms by vehicles that were identified as containing low levels of medical isotopes with short half-lives in trash; four (4) alarms were from drivers who had undergone recent medical tests; and five (5) false alarms.

The Public Unloading Facility radiation detectors had four (4) 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 377 enforcement actions were issued during the reporting period. The enforcement composition breakdown includes:

Code Section	Description	Verbal	NOV	Citation	TOTAL
48-05	Permit required to collect or dispose of solid waste	67	13	54	134
48-05(3)(d)	Delivery of solid waste acceptable for recycling	0	0	0	0
48-10	Deposit at other than an approved place – Prohibited	0	0	1	1
48-11	Illegal dumping, dumping in another's container, dumping solid waste on a public right-of-way	0	0	0	0
48-18(a)	Unlicensed Company/Tags	0	0	0	0
48-19(2)(a)	Improper or no tarps on resident vehicle	27	4	13	44
48-19(a)(2)b	Transporting solid waste without a canvas or tarp covering the load tightly Commercial	141	10	20	171
48-20(a)	Un-permitted Vehicle of a Licensed Company	2	8	17	27
48-20(b)	Transporting solid waste without a canvas or tarp covering the load tightly	0	0	0	0
48-22	Out of State Trash being disposed in MC	0	0	0	0
	<b>TOTALS</b>	<b>237</b>	<b>35</b>	<b>105</b>	<b>377</b>

**Site 2 Landfill Properties** – During the quarter Solid Waste Services staff closed the project on the construction of the pond improvements on the property. Staff performed its annual site inspection and with assistance from DEP's Watershed planners evaluated the *krigia dandelion* habitat. On two separate and heavy rain events, stormwater runoff lead to damage in the driveway accessing the Chiswell property. Emergency drainage repairs were made, but future improvements may be required if the problem persists.

**Yard Trim Compost Facility** – The facility received 18,858 tons of material for composting this quarter; this compares with 17,436 tons of materials received during the same period last year. No material was diverted to back-up composting facilities this quarter. There were 15,578 cubic yards of bulk LeafGro™ shipped this quarter; compared with 20,623 cubic yards for the same period last year.

**Bagging Operation** – 235,850 of LeafGro™ were shipped to distributors this quarter. This compares with 169,696 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 fourth quarter of FY14 approximately 44,262 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 12,887 tons of asphalt, soil, concrete, 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 fourth 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>

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

Serena Bell  
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Division of Solid Waste Services  
101 Monroe Street, 6th Floor  
Rockville, MD 20850  
Tel: 240-777-6459  
Fax: 240-777-6465  
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	91,388
# Residences receiving collection of recyclables in blue bins and yard trim collection	213,754
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
ADC	Alternate Daily Cover
BTU	British Thermal Unit
CEMS	Continuous Emissions Monitoring System
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
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
MSW	Municipal Solid Waste
NOI	Notice of Intent
NOV	Notice of Violation
OMB	Office of Management and Budget (Montgomery County)
PET	Polyethylene Terephthalate
RRF	Resource Recovery Facility
SVO	Straight Vegetable Oil
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
SWPPP	Stormwater Pollution Prevention Plan

# **GLOSSARY OF ACRONYMS**

TRRAC	Think Reduce and Recycle at Apartments and Condominiums
VOC	Volatile Organic Compound
WVO	Waste Vegetable Oil
YTD	Year-To-Date