



DEPARTMENT OF
**ENVIRONMENTAL
PROTECTION**



Montgomery County, Maryland
DIVISION OF SOLID WASTE SERVICES

QUARTERLY REPORT

***JANUARY, FEBRUARY AND
MARCH 2017***
(3rd Quarter of FY17)



Daniel Locke, Chief, Division of Solid Waste Services
retires after 20 years of service
to Montgomery County

Printed on Recycled and Recyclable Paper



TABLE OF CONTENTS

OVERVIEW 3

CITIZEN COMMITTEES 5

COLLECTIONS 5

ADDITIONAL RECYCLING 9

HAZARDOUS WASTE PROGRAMS 10

WASTE REDUCTION 11

AIR PERMITS AND ENVIRONMENTAL PROGRAMS 11

WASTE REDUCTION AND RECYCLING 11

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 prior fiscal years (County Fiscal Year 2017 began July 1, 2016).

FACILITY	January FY17	FY17 YTD	January FY16	January FY15
Materials Recovery Facility ⁽¹⁾	6,795 tons	43,534 tons	4,921 tons	6,462 tons
Other Landfill Facilities	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	40,528 tons	297,035 tons	43,135 tons	45,609 tons
Yard Trim Compost Facility	2,325 tons	39,684 tons	1,496 tons	3,370 tons
Honeygo Run Reclamation ⁽³⁾	736 tons	9,212 tons	321 tons	610 tons
Other Rubble and Soil Recycling ⁽⁴⁾	1,945 tons	24,302 tons	744 tons	837 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	11,264 tons	94,842 tons	11,072 tons	13,287 tons
By Pass MSW to Landfills	2,743 tons	60,413 tons	0 ton	0 ton

FACILITY	February FY17	FY17 YTD	February FY16	February FY15
Materials Recovery Facility ⁽¹⁾	5,320 tons	48,854 tons	6,465 tons	4,628 tons
Other Landfill Facilities	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	41,715 tons	338,750 tons	42,671 tons	37,626 tons
Yard Trim Compost Facility	1,221 tons	40,905 tons	646 tons	424 tons
Honeygo Run Reclamation ⁽³⁾	1,022 tons	10,234 tons	218 tons	1,172 tons
Other Rubble and Soil Recycling ⁽⁴⁾	3,903 tons	28,205 tons	612 tons	402 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	10,735 tons	105,577 tons	11,850 tons	11,351 tons
By Pass MSW to Landfills	468 tons	60,881 tons	0 ton	0 ton

(1) MRF tons reported as outgoing.

(2) 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.

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

(4) As of July 1, 2014, the Shady Grove Processing Facility and Transfer Station began soil screening operations to increase rubble and soil recycling.

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

FACILITY	March FY17	FY17 YTD	March FY16	March FY15
Materials Recovery Facility ⁽¹⁾	5,682 tons	54,536 tons	6,170 tons	6,148 tons
Other Landfill Facilities	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	39,745 tons	378,495 tons	45,152 tons	43,947 tons
Yard Trim Compost Facility	2,801 tons	43,706 tons	2,978 tons	1,201 tons
Honeygo Run Reclamation ⁽³⁾	1,224 tons	11,458 tons	510 tons	132 tons
Other Rubble and Soil Recycling ⁽⁴⁾	1,729 tons	29,934 tons	2,622 tons	981 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	13,002 tons	118,579 tons	11,119 tons	10,856 tons
By Pass MSW to Landfills	4,630 tons	65,511 tons	0 ton	0 ton

(1) MRF tons reported as outgoing.

(2) 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.

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

(4) As of July 1, 2014, the Shady Grove Processing Facility and Transfer Station began soil screening operations to increase rubble and soil recycling.

(5) Ash sent to Old Dominion Landfill for internal roads within working 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 2017 totaling \$3,319,037.60 (a decrease of \$263,485.85 below the same quarter in 2016);
- Updated the Aging Report (30-day average arrearage was less than \$10,000 per month for the quarter);
- Reconciled January, February, and March 2017 tons to monies posted in ERP, as well as to the total dollars charged in Paradigm;
- Participated in FY18 Solid Waste Operating budget discussions with OMB, CE, and SWAC;
- Work with County Finance to reconcile cash bond accounts;
- Conduct interviews to fill a vacancy for the IT Specialist III position;
- Facilitated RFP submission to Office of Procurement for Refuse areas #1, #2, #4, #5, and #7; and
- Work with DTS to resolve network issues at the Shady Grove facility.

CITIZEN COMMITTEES

Dickerson Area Facilities Implementation Group (DAFIG) – DAFIG met on Tuesday, March 14, 2017. Topics discussed included the following:

- Planning for FY18 Environmental Monitoring
- DEP Complaint Report
- Facilities Update
- Improved Community Notification Protocol

The next quarterly DAFIG meeting will be held on Tuesday, June 13, 2017.

Solid Waste Advisory Committee (SWAC)

January – Dan Locke, Division Chief, provided SWAC with a briefing on the recent fire at the Dickerson Resource Recovery Facility.

February – Solid Waste Section Chiefs provided SWAC with an overview of the Division's proposed FY18 budget.

March – Reviewed and discussed DSWS FY18 recommended budget. Developed letter to County Executive and Council regarding proposed budget.

COLLECTIONS

Resident Missed Collection Complaints: These are calls from residents contacting MC311 one or two days after their collection day informing us that their solid waste was not collected.

January 2017	130
January 2016	39
Difference	+ 91

February 2017	255
February 2016	50
Difference	+205

March 2017	222
March 2016	61
Difference	+161

Resident Service Requests:

January 2017

22 gallon bin pick-up	501
22 gallon bin request	1,893
Bulk trash requests	1,974
Cart pick-up	11
Cart repair	464
65 gallon cart	146
35 gallon cart	124
Field check	339
Literature	113
Property damage/missing	34
Same day	298
Scrap Metal request	1,437

February 2017

22 gallon bin pick-up	534
22 gallon bin request	2,150
Bulk trash requests	1,823
Cart pick-up	13
Cart repair	434
65 gallon cart	137
35 gallon cart	92
Field check	396
Literature	140
Property damage/missing	23
Same day	469
Scrap Metal request	1,372

March 2017

22 gallon bin pick-up	496
22 gallon bin request	1,881
Bulk trash requests	2,010
Cart pick-up	15
Cart repair	523
65 gallon cart	124
35 gallon cart	106
Field check	443
Literature	178
Property damage/missing	18
Same day	436
Scrap Metal request	1,518

Outreach:

Survey Cards:

The Public Service Workers distributed survey cards while performing recycling container deliveries/pick-ups or repairs. Figures in tables are percentages.

In **January**, 860 cards were dropped off with a return rate of 13%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	96%	3%	0%	0%	1%
County Provided Collection Services	80%	17%	2%	1%	0%

In **February**, 1,008 cards were dropped off with a return rate of 8%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	95%	4%	1%	0%	0%
County Provided Collection Services	83%	12%	5%	0%	0%

In **March**, 1,469 cards were dropped off with a return rate of 9%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	93%	6%	0%	0%	1%
County Provided Collection Services	79%	17%	1%	2%	1%

Collection Section Enforcement Actions:

January:

- Citations: There were no citations issued.
- Notices of Violation: There were two (2) Notices of Violation issued.
 - Collected solid waste within the County without a valid collector's tag 48-20a.
 - Left collection vehicle running and unattended 48-23.

February:

- Citations: There were no citations issued.
- Notices of Violation: There were no Notices of Violation issued.

March:

- Citations: There were no citations issued.
- Notice of Violation: There were no Notices of Violation issued.

Website:

Solid Waste Services Website

Metric	January 2017	February 2017	March 2017
Users	62,634	42,273	40,111
Sessions	100,752	65,740	63,841
Page Views	217,257	153,148	151,684

Email List Memberships

Topic	Subscribers (new this month)		
	January 2017	February 2017	March 2017
Holiday Reminder	23,937 (0)	23,895 (0)	23,848 (0)
Holiday Reminder (by route)	10,434 (674)	10,688 (279)	11,415 (744)
HHW Announcements	12,179 (1,751)	12,164 (0)	12,140 (0)
Facility Updates	8,249 (128)	8,354 (117)	8,469 (137)
Electronics recycling	12,358 (152)	12,518 (149)	12,659 (174)
Expanded Polystyrene Ban news and updates	439 (13)	457 (18)	492 (40)
Go Green	4,973 (0)	8,023 (86)	4,951 (0)
Civic Loop	4,257 (17)	4,965 (0)	4,286 (30)
SORRT Newsletter	3,682 (15)	3,694 (16)	3,732 (96)
TRRAC Newsletter	2,397 (13)	2,410 (18)	2,427 (29)
Quarterly Report	2,880 (20)	2,898 (23)	2,925 (39)
Paper Shredding Events	10,738 (289)	10,929 (210)	11,078 (181)
Recycling Volunteers – Active	253 (0)	253 (14)	253 (0)
Recycling Volunteers – Prospective	143 (0)	143 (0)	143 (0)
Learn about new web features	357 (19)	373 (16)	402 (35)
Total Subscriptions	103,363 (1,515)	102,180 (876)	99,220 (1,505)

Most Popular Web Pages

January 2017	February 2017	March 2017
1. Holidays	Holidays	Collection Day Lookup
2. Collection Day Lookup	Transfer Station detail page	Transfer Station detail page
3. Transfer Station detail page	Holidays	Collection Day Lookup
4. Recycling, Trash, and Yard Trim Programs - home	Recycling, Trash, and Yard Trim Programs - home	Recycling, Trash, and Yard Trim Programs - home
5. DSWS home page	How Do I Recycle/Dispose...-home page	How Do I Recycle/Dispose...-home page
6. How Do I Recycle/Dispose...-home page	DSWS home page	Holidays
7. Webstore – home page	Webstore – home	Webstore – home
8. Bulk trash	Webstore – Single-family recycling containers	Webstore – Single-family recycling containers
9. Recycle Christmas trees page	Bulk trash	Bulk trash
10. Webstore – Single-family recycling containers	Transfer Station – home page	Paper Shredding

ADDITIONAL RECYCLING

Product Recycled	Jan FY17	FY17 YTD	Jan FY16	Jan FY15
TV's and PC's	158 tons	910 tons	166 tons	165 tons
Propane Tanks	9 tons	25 tons	1 ton	0 ton
Textiles	5 tons	31 tons	8 tons	11 tons
Construction Materials (Don't Dump – Donate)	0 ton	2 tons	0 ton	0 ton
Vehicle Batteries	0 ton	59 tons	4 tons	4 tons
Scrap Metal	526 tons	4,643 tons	397 tons	290 tons

Product Recycled	Feb FY17	FY17 YTD	Feb FY16	Feb FY15
TV's and PC's	115 tons	1,025 tons	104 tons	119 tons
Propane Tanks	3 tons	28 tons	2 tons	2 tons
Textiles	5 tons	36 tons	16 tons	7 tons
Construction Materials (Don't Dump – Donate)	0 ton	2 tons	1 ton	1 ton
Vehicle Batteries	8 tons	67 tons	9 tons	6 tons
Scrap Metal	620 tons	5,263 tons	466 tons	261 tons

Product Recycled	Mar FY17	FY17 YTD	Mar FY16	Mar FY15
TV's and PC's	86 tons	1,111 tons	138 tons	152 tons
Propane Tanks	2 tons	30 tons	2 tons	1 ton
Textiles	7 tons	43 tons	14 tons	10 tons
Construction Materials (Don't Dump – Donate)	1 ton	3 tons	1 ton	1 ton
Vehicle Batteries	8 tons	75 tons	9 tons	8 tons
Scrap Metal	677 tons	5,940 tons	747 tons	332 tons

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste (HHW) Collection – There were a total of 25,016 patrons in the program during the third fiscal quarter. During normal business hours, we had 23,110 patrons; after 5:00 p.m., we had 1,906 patrons.

Small Quantity Generator/ECOWISE Program – There were 52 ECOWISE participants in the third quarter that discarded 4.77 tons of business related hazardous materials during the quarter.

WASTE REDUCTION

Bicycle Recycling – “Bikes for the World” removed .99 tons of bikes in the third fiscal quarter for shipment to countries worldwide.

Paint Reduction – The free paint giveaway program through the County paint store’s reuse program did not operate from November 1, 2016 through March 31, 2017 because of the seasonal closure. As a result, no latex paint was given away to County residents and no paint was donated to nonprofit organizations. Paint that cannot be reused or donated is solidified and further processed which resulted in more than 12,800 gallons of paint being processed for proper disposal.

Straight Vegetable Oil (SVO) Recycling – The Transfer Station has a vendor that accepts Waste Vegetable Oil (WVO) for the sole purpose of biodiesel production. In the third fiscal quarter, 6 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 exceedence of air permit limits on stack emissions during the quarter.

TES Contract (Weather Station) – All the instrumentation worked normally this quarter. Data recovery for all parameters was 100 percent. Precipitation for the month of January was 3.12 inches, February was .71 inches and March was 4.12 inches.

WASTE REDUCTION AND RECYCLING

Public Education and Outreach – Staff from DEP’s Waste Reduction and Recycling Section and Recycling Program Volunteers participated in a total of 18 community education and outreach events and activities between January 1, 2017 and March 31, 2017, reaching an estimated audience of 2,620 people. Staff continued to answer questions from businesses and residents about the ban on the use and sale of expanded polystyrene food service products and packaging peanuts, and responded to seven (7) requests for information. An informational fact sheet on the ban, posted on the DEP website, continues to be distributed at events and during on-site visits to businesses conducted by SORRT (Smart Organizations Reduce and Recycle Tons) Program staff and Recycling Investigators. Staff created website information and graphics, as well as Talkin’ Trash blog, Facebook and Twitter information to increase awareness of the types of materials that should not be disposed of in the trash to reduce the risk for trash fires. Staff are actively engaged in scheduling activities, events, and training sessions for Earth Month (April) and throughout the spring; over 80 events are currently scheduled. These events include the next series of confidential paper shredding/recycling and donation of

clothing/household items for reuse collection events which are scheduled for April 2nd at Damascus High School in Damascus, May 13th at Northwest High School in Germantown, and June 3rd at Paint Branch High School in Burtonsville. In addition, efforts are underway to plan activities for the 18th Annual Montgomery County Recycling Awareness Week which be held during the week of May 22 through May 26, 2017, including school presentations and a recycling achievement recognition ceremony. During this quarter, staff increased use of social media (Twitter, Facebook and Blogs) to share information about various events and activities taking place in the County.

On-Site Composting and Waste Reduction Activities – A total of 337 backyard compost bins were distributed between January 1, 2017 and March 31, 2017 to encourage residents to compost their leaves and grass clippings on-site in the continuing effort to reduce the amount of yard trim materials that require collection/transport/processing by the county. DEP staff participated in four (4) compost workshops/seminars this quarter: Montgomery County Master Gardener Compost Training, Master Gardener Annual Spring Conference, Damascus Library and Starbucks Sustainability Group. Additionally, DEP Waste Reduction and Recycling staff and Recycling Program Volunteers provided information about backyard composting and distributed compost bins during the following events: National Seed Exchange at Brookside Garden, Habitat for Humanity Restore Gaithersburg, and Kites Over Clarksburg. Staff responded to 11 requests for deliveries of compost bins from the 22 compost bin distribution sites in the County and continues to contact all compost bin distributions sites to ensure these locations have an adequate inventory of compost bins for distribution to residents. Staff also responded to 11 requests for composting/grasscycling brochures, magnets and DVDs.

Recycling Investigations Unit – Since the unit was established in 2005, 74,443 site visits and 7,365 formal investigations have been conducted. For the period from January 1, 2017 through March 31, 2017, 238 NOVs were issued to businesses and multi-family properties for infringements against the recycling regulations and Chapter 48. A total of 19 citations were issued to businesses and multi-family properties for the following reasons: eight (8) citations were issued to businesses for failure to recycle required recyclable materials; two (2) citations issued to businesses for failure to provide containers for required recyclable materials; three (3) citations were issued to businesses for failure to properly maintain the premises by permitting solid waste to be stored outside of approved containers; one (1) citation was issued to a collector for failure to collect and deliver to a recycling facility materials that were source separated from the solid waste stream; one (1) citation was issued to a business for failure to file an annual business waste reduction and recycling report; and four (4) citations were issued to multi-family properties for failure to file an annual multi-family waste reduction and recycling report.

Commercial Recycling and Waste Reduction – DEP's SORRT Program staff conducted 2,220 site visits to businesses from January 1, 2017 through March 31, 2017. During this period, DEP staff resolved eight (8) complaints, participated in 19 educational events reaching 1,575 people, distributed 750 desk-side (7-gallon) recycling bins and 211

slim jim (23-gallon) recycling containers to businesses to help set-up and/or improve existing recycling programs. Staff responded to 237 requests for information ranging from educational materials to presentations for property managers, tenants, and employees. DEP requested 590 businesses to file an Annual Business Recycling and Waste Reduction Report covering their recycling and solid waste activities for calendar year 2016. Of the 590 businesses required to submit an annual recycling report, 17 large businesses and 108 medium and small-sized businesses and property owners of multi-tenant commercial properties missed their respective filing deadlines. These businesses were forwarded to the Recycling Investigations Unit for follow-up. The SORRT Program held two annual recycling report webinars (January 11 and February 15) providing guidance to businesses and encouraging them to submit their annual recycling report on-line to reduce printing and mailing costs. A total of 55 people, including business managers, owners, employees, and property owners and managers representing numerous types of businesses, participated in the webinars. On March 9, DEP hosted the quarterly meeting of the Recycling Oversight Committee. Seven members representing local and federal government facilities participated in the meeting and discussed ideas on how to increase waste diversion and recycling rates in their facilities. The next Recycling Oversight Committee meeting is scheduled for June 8, 2017. DEP Waste Reduction and Recycling Section staff also participated in the Bioscience Roundtable, held at the National Institute of Health on March 21. The topic focused on efforts to increase recycling at bioscience companies by implementing recycling programs for plastic film/shrink wrap.

Multi-Family Recycling and Waste Reduction – During this quarter, staff from DEP's TRRAC (Think, Reduce and Recycle at Apartments and Condominium) Program conducted 469 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 14 multi-family property educational events, reaching 482 people. These events included community recycling displays and several resident recycling presentations, staff trainings, resident board meetings, lobby events, seminars and webinars. Staff also responded to 77 requests for information and resolved 10 complaints. In addition, staff distributed 2,293 baby blue (6-gallon) multi-family recycling bins, 186 Slim Jim (23-gallon) recycling containers, 35 WasteWatcher XL (32-gallon) recycling containers, and 12 food scrap recycling starter kits to multi-family properties to increase recycling capacity. TRRAC staff conducted a webinar on January 10th to demonstrate the use of the online annual recycling reporting system. A total of 21 property and community managers participated in the webinar. An email notice and a postcard reminder was sent to 790 property managers (representing 686 multi-family properties) reminding them of the February 1st filing deadline to submit their Multi-Family Annual Recycling and Waste Reduction Report. As of March 31st, 681 multi-family properties had submitted their annual recycling reports. DEP Recycling Investigators are working to obtain late annual recycling reports from eight (8) multi-family properties. TRRAC staff are conducting field verifications of all multi-family annual recycling reports that have been submitted. Staff held a Multi-Family Recycling Seminar on March 22nd at

the Gaithersburg Marriott Washingtonian Center which was attended by 27 multi-family property managers and staff.

Mixed Paper Recycling – DEP's Waste Reduction and Recycling staff distributed existing educational materials 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 – During this quarter, a total of 57 Recycling Program Volunteers, some of them participating in multiple events, contributed almost 136 hours of their time to support recycling activities. One (1) volunteer provided 44 hours of office assistance which included filing, counting and bundling educational materials for distribution at outreach events. During this quarter, 26 volunteers participated in five (5) community outreach events and provided almost 76 hours of direct service to provide information on waste reduction, reuse, recycling and composting to residents. The events included: Martin Luther King, Jr. Day of Service, National Seed Exchange at Brookside Gardens, Master Gardener Compost Training, Habitat for Humanity Rockville One Year Celebration and Kites Over Clarksburg. Additionally, nine (9) volunteers contributed 36 hours of service preparing for and participating in the annual Gaithersburg St. Patrick's Day Parade to promote the County's goal to reduce waste and recycle 70 percent by 2020 and keep our land, air and water clean. Three (3) Neighborhood Block and Condo Captain volunteers spent three (3) hours of their time providing recycling outreach to their neighbors. Volunteer recruitment and training efforts during the quarter included volunteer fairs at each of the campuses of Montgomery College (Gaithersburg, Rockville and Takoma Park/Silver Spring). During the volunteer recruitment drives, the Recycling Volunteer Program recruited 18 applicants and 173 prospect volunteers. One recycling volunteer provided five (5) hours of time assisting at one of the volunteer fairs. Aside from the volunteer fairs, the Recycling Volunteer Program also recruited 13 other new volunteers, an additional 62 volunteer applicants and 215 prospective volunteers. Sixteen (16) recycling volunteers participated in a guided tour of the Montgomery County Recycling Center on January 27th. Thirteen (13) new volunteers received information about the roles and responsibilities of being a Recycling Volunteer during three (3) new volunteer orientation sessions held this quarter on January 7, February 11 and March 7. Additionally, two (2) recycling volunteers attended and received additional training on becoming a Lead Recycling Volunteer. There are currently 382 active recycling volunteers as of March 31, 2017.

PILOT PROGRAMS

Cooperative Collection/Alternative Collection – DEP's SORRT Program continued to monitor all three Cooperative Collection Projects in Silver Spring to ensure that the participants are recycling properly.

EOB Cafeteria Food Scrap Recycling Model Project – DEP continued to monitor the model food scrap recycling collection project for the EOB cafeteria. For the project to-date (November 1, 2011 – February 28, 2017) in which pre-consumer food scraps are separated for recycling collection, a total of 103.3 tons of food waste has been collected and recycled. DEP continues to monitor the collection area daily and checks for feedback from cafeteria staff on a regular basis. During this period, staff also monitored the food scrap recycling collection containers for the cafeterias at the Council Office Building and the Public Safety Headquarters Building. Additional quantities of compostable/biodegradable bags were distributed to all three locations during this quarter.

FACILITY ACTIVITIES

Resource Recovery Facility (RRF) – The RRF processed a total of 121,988 tons for the quarter, or an average of 1,341 tons per day. Late in the quarter, two tours of the plant were given. The plant exported 64,700,000 kilowatt-hours to the power grid. About 1,329 tons of ferrous material was recovered from the ash and recycled.

Processing tons were down as the plant recovered from the impacts of the December pit fire. Scheduled outages stretched the limits of waste storage capacity at the plant making it necessary to bypass 7,728 tons of waste.

During the quarter the units were down to repair grate bars, superheater tube leaks, furnace tube leaks, and a stoker feed table. In addition, units were down due to economizer fouling, a lack of ash boxes and a transformer failure while the Uninterrupted Power Supply (UPS) equipment was out of service. Also, problems with Unit #1 feedchute and feedtable limited the unit's ability to process trash until its scheduled outage in January when a new feedchute was installed and later in March the feedtable was replaced. During this time there were two major outages for Unit #1. Superheater bundles, baghouse hoppers, and screw conveyors were replaced. At the end of the quarter, Unit #3 encountered a major outage to have baghouse screws, baghouse hoppers, and ash discharge systems replaced.

Normal trash deliveries resumed at the start of the quarter. An analysis of the root cause of the December fire continued as changes are evaluated and instituted. Treatment of the onsite stormwater receiving pond water occurred with the Maryland Department of the Environment's approval. Follow-up testing will indicate if normal discharge operations can resume.

Materials Recovery Facility (MRF) – During the third quarter, construction of the new fiber processing line at the MRF continued. Commencing in late August the project continued through the end of March, with full operations anticipated for early May 2017. The new fiber processing systems will result in more than 50,000 tons of cardboard and fiber-related material processing internally rather than the exportation process that occurred historically.

MRF production resulted in the processing of more than 7,497 tons of incoming commingled recyclable material and more than 11,019 tons of cardboard and other fiber-related materials being exported to vendors under contractual agreements.

During regular and preventative maintenance programs, the following maintenance items were addressed: four (4) conveyor belts were replaced due to wear or damage; five (5) pulleys, six (6) rollers, and 10 sets of bearings were replaced; rubber cutting edge was replaced on the 938 loader; Komatsu had the door latch replaced; The Caterpillar 966 Loader had the alternator replaced, both pit conveyors were cleaned and excess liquid material vacuumed out; and general repair and maintenance was performed on all processing equipment and rolling stock.

Oaks Landfill – Power Plant Update - The 2.4 Megawatt landfill gas-to-energy (LFGE) facility mechanically operating well. However, gas quality (low methane quantity) issues are hampering the electricity generation from July. CB&I proposing to install more extraction wells in gas-rich areas.

Groundwater Quality Update - The County sent the semi-annual groundwater monitoring data to SCS for evaluation purposes. The SCS effort is related to a Nature and Extent Investigation of historically low-level groundwater contamination in the northwest sector of the Oaks Landfill property that may be partially related to gas migration and is in addition to the routine post-closure monitoring and reporting done by DEP. The two-year Nature and Extent Investigation study was concluded and the draft report was prepared by SCS. DEP is currently reviewing the report. CB&I completed the gas sampling around the landfill for the first quarter gas monitoring events in March, and no exceedances were noted.

Fire extinguishing water (fire flow) held at the Oaks Sanitary Landfill Leachate Pretreatment Plant from the Montgomery County Resource Recovery Facility fire of December 2016 was tested and approved to be comingled with landfill leachate treatment. Treatment and hauling of the comingled fire flow/landfill leachate continues unremarkably.

Gude Landfill – The 0.8 MW Megawatt landfill gas-to-energy (LFGE) facility continues to operate. However, gas quality (low methane quantity) issues are hampering the electricity generation from July 2016. DEP and NMWDA is currently preparing a financial feasibility analysis for continuing the landfill gas to energy operations.

The methane gas monitoring wells on the northwest boundary of the Landfill adjacent to the gas line right-of-way and the Derwood Station community have been largely in compliance. Gas monitoring probe #26 is also in compliance after the relocation of the probe. There have been continued exceedances with probe #28S and near the pond off the 600 East Gude Drive entrance, and the newly installed probe #18. The operations contractor, CB&I collected the gas samples in the probe #18 and #28S to rule out any presence of swamp gas or natural gas. DEP is waiting for final reports. The number of landfill gas monitoring wells proposed in the 2009 LFGMP was reduced due to limited access in the forested portion of the site and completed the installation of all the required additional wells. Gas monitoring data is regularly provided to the Gude Landfill Concerned Citizens (GLCC) which includes current and historical results.

CB&I completed the gas sampling around the landfill for the first quarter gas monitoring event in March. A few exceedances were noted from probe #18 and #28S. As stated in the above paragraph, these are being addressed by the contractor.

The monthly meetings, between GLCC (i.e. the community) and DEP was conducted on February 23, 2017 and March 16, 2017, at the Transfer Station. The meetings will continue throughout the remediation process. Written updates will be provided during months when there is insufficient new information to justify a meeting.

Beantown Dump Project – This project involves reducing the presence of methane gas at the former Beantown Dump near the intersection of Gude Drive and Dover Road.

DEP completed the quarterly gas monitoring in February 2017. Results indicated reduced methane concentrations at the old dump site, and the exceedances are limited to only seven wells.

Due to the reduced exceedances, DEP is considering to continue the monitoring for next three quarters and will decide the future course of action.

Solid Waste Transfer Station – Covanta shipped 125,625 tons of processible waste via rail from the Transfer Station for the third quarter of FY17 compared to 143,630 for the same period last year.

The inbound radiation detectors had 48 total alarms this quarter – 34 alarms by vehicles whose loads were identified as containing low levels of medical isotopes with short half-lives in trash; and the Public Unloading Facility radiation detectors had 13 alarms. All alarms involved drivers or passengers who had undergone recent medical tests and/or treatment involving radioactive isotopes and residual radiation. Also, there was one false alarm.

Transfer Station Enforcement – Approximately 500 vehicles were turned away in the 3rd quarter at the Transfer Station for bringing trash from out of Montgomery County. In addition, Under Chapter 48 of the Montgomery County Code, a total of 180 enforcement actions were issued during the reporting period. The enforcement composition breakdown includes:

Code Section	Description	Verbal	NOV	Citation	TOTAL
48.00.05.03(d)	<i>Delivering of solid waste acceptable for recycling</i>	11	1	2	14
48-11	<i>Illegal dumping, dumping in another's container, dumping solid waste on a public right-of-way</i>	1	0	0	1
48-19(a)(1)	<i>Transporting Solid Waste without a valid Collectors/Hauler tag</i>	0	0	2	2
48-19(a)(2)(a)	<i>Improper or no tarps on resident vehicle</i>	83	3	1	87
48-19(a)(2)(b)	<i>Transporting solid waste without a canvas or tarp covering the load tightly Commercial</i>	12	12	1	25
48-19(a)(3)	<i>Person cannot engage in business of collecting or transporting solid waste without obtaining a license</i>	1	0	1	2
48-20(a)	<i>Un-permitted Vehicle of a Licensed Company</i>	2	2	18	22
48-20(d)	<i>Unsafe Vehicle</i>	0	1	2	3
48-22	<i>Permit Required for Transporting trash from Out of State into County</i>	1	0	0	1
48-48(a)	<i>Compliance of Recycling by Generators</i>	0	1	18	19
48-48(a)	<i>Recycle compliance by Recycler</i>	0	1	2	3
48-48(b)	<i>Compliance by Hauler/Collector</i>	0	0	1	1
	TOTALS	111	21	48	180

Site 2 Landfill Properties – The Department of General Services, Real Estate section is vetting a new tenant for the barn on the Draper property. The tenant leasing the Draper property farm house left at the end March. Staff will undergo an inspection of the property to assess any needed work prior to renting the house again. Also during the quarter the open bore well located on the Chiswell property was filled and graded.

Yard Trim Compost Facility – The facility received 6,347 tons of material for composting this quarter; this compares with 5,120 tons of materials received during the same period last year. No material was diverted to back-up composting facilities this quarter. There were 3,395 cubic yards of bulk LeafGro™ shipped this quarter; compared with 9,361 cubic yards for the same period last year. (sold out of material early).

Bagging Operation – 178,550 bags of LeafGro™ were shipped to distributors this quarter. This compares with 95,150 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 FY17 approximately 35,001 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.

Honeygo Run Reclamation, Perry Hall Maryland – Approximately 2,982 tons of non-processibles were sent to the Honeygo Run Reclamation site in Perry Hall, Maryland, for construction and demolition debris recycling or disposal for the third quarter of FY17.

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	www.montgomerycountymd.gov/solidwaste www.montgomerycountymd.gov/recycling www.montgomerycountymd.gov/hazardouswaste www.montgomerycountymd.gov/yardtrim

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

Serena Bell
Department of Environmental Protection
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

SOLID WASTE FACTS IN A NUTSHELL

TOPIC OR FACILITY	
Latest Tonnage of Materials Recycled in Montgomery County	625,407 (CY15)
Latest Recycling and Waste Diversion Rate Reported in Montgomery County	61.01% (CY15)
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 FY16, 65,104 tons of yard trim were received at the Dickerson facility.</p>
# Residences receiving trash collection by County contractors Agreement	91,620
# Residences receiving collection of recyclables in blue bins and yard trim collection	216,679
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

BTU	British Thermal Unit
CB&I	Chicago Bridge and Iron Company
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
MES	Maryland Environmental Services
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NOV	Notice of Violation
RRF	Resource Recovery Facility
SCS	SCS Engineers
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
VOCs	Volatile Organic Compounds
WVO	Waste Vegetable Oil
YTD	Year-To-Date