



Montgomery County, Maryland

2nd QUARTERLY REPORT for FY-19

OCTOBER, NOVEMBER AND DECEMBER 2018



The three Fall 2018 confidential paper shredding and recycling events in Sherwood, Damascus and Bethesda were, as always, very popular with residents; Rocco the Recycling Retriever waves to residents as he walks alongside the recycling float in the Montgomery County Thanksgiving Day Parade in Silver Spring.

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 16

FACILITY ACTIVITIES 17

OUT-OF-COUNTY HAUL..... 21

GENERAL INFORMATION 22

SOLID WASTE FACTS IN A NUTSHELL 23

GLOSSARY OF ACRONYMS 24

OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the months of October, November and December including the fiscal year to date (FY YTD), and the same calendar month in the two prior fiscal years (County Fiscal Year 2019 began July 1, 2018).

FACILITY	Oct FY19	FY19 YTD	Oct FY18	Oct FY17
Recycling Center ⁽¹⁾	4,501 tons	19,523 tons	6,178 tons	5,645 tons
Non Processibles to Greencastle, PA ⁽⁶⁾	5,134 tons	15,851 tons	2,568 tons	0 tons
Resource Recovery Facility ⁽²⁾	56,579 tons	219,954 tons	52,408 tons	44,735 tons
Yard Trim Compost Facility	3,295 tons	15,210 tons	4,211 tons	6,789 tons
Honeygo Run Reclamation ⁽³⁾	0 tons	0 tons	0 tons	1,936 tons
Other Rubble and Soil Recycling ⁽⁴⁾	2,813 tons	14,466 tons	4,545 tons	3,221 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	16,878 tons	63,392 tons	15,696 tons	14,169 tons
MSW Bypass to Landfills	0 tons	961 tons	0 tons	10,172 tons

FACILITY	Nov FY19	FY19 YTD	Nov FY18	Nov FY17
Recycling Center ⁽¹⁾	5,370 tons	24,892 tons	5,761 tons	6,302 tons
Non Processibles to Greencastle, PA ⁽⁶⁾	3,769 tons	19,620 tons	1,524 tons	0 tons
Resource Recovery Facility ⁽²⁾	49,574 tons	269,527 tons	47,667 tons	45,021 tons
Yard Trim Compost Facility	10,154 tons	25,364 tons	12,111 tons	12,169 tons
Honeygo Run Reclamation ⁽³⁾	0 tons	0 tons	0 tons	1,421 tons
Other Rubble and Soil Recycling ⁽⁴⁾	2,806 tons	17,272 tons	3,477 tons	6,304 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	13,430 tons	80,822 tons	16,437 tons	14,395 tons
MSW Bypass to Landfills	0 tons	961 tons	2,291 tons	5,929 tons

(1) Recycling Center 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.

(6) As of July 1, 2017, the Shady Grove Processing Facility and Transfer Station began shipping non processible waste (Mountain View Reclamation Landfill, Greencastle, PA).

FACILITY	Dec FY19	FY19 YTD	Dec FY18	Dec FY17
Recycling Center ⁽¹⁾	4,491 tons	29,383 tons	5,629 tons	6,811 tons
Non Processibles to Greencastle, PA ⁽⁶⁾	3,077 tons	22,697 tons	1,452 tons	0 tons
Resource Recovery Facility ⁽²⁾	52,128 tons	321,656 tons	48,976 tons	25,587 tons
Yard Trim Compost Facility	23,301 tons	48,665 tons	11,329 tons	8,166 tons
Honeygo Run Reclamation ⁽³⁾	0 tons	0 tons	0 tons	568 tons
Other Rubble and Soil Recycling ⁽⁴⁾	504 tons	17,776 tons	747 tons	1,043 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	15,668 tons	96,490 tons	16,202 tons	11,455 tons
MSW Bypass to Landfills	0 tons	961 tons	0 tons	11,820 tons

(1) Recycling Center 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.

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(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.

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Revenue Analysis and Systems Evaluation

During October, November and December program staff:

- Researched properties and entered billing changes into the database;
- Prepared monthly house counts for collection contractors;
- Processed vacancy refunds payable in October, November and December;
- 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 October, November and December 2018 totaling \$4,636,546.94 (an increase of \$607,885.66 above the same quarter in 2017);
- Updated the Aging Report (30-day average arrearage was less than \$15,000 per month for the quarter);
- Reconciled October, November and December 2018 tons to monies posted in ERP, as well as to the total dollars charged in Paradigm;
- Completed the FY19 2nd Quarter budget analysis;
- Review status of contract renewals;
- Continue implementing credit card system at Transfer Station scale house; and
- Review FY18 encumbrances for liquidation.

CITIZEN COMMITTEES

Dickerson Area Facilities Implementation Group (DAFIG) – DAFIG met on Tuesday, December 11, 2018. Topics discussed included the following:

- Prior meeting minutes
- Distribution Email List
- On-call and other contacts
- RRF – Corrective Action Plan
- County Master Plan Update
- DAFIG's Master Plan Update
- Environmental Monitoring Update
- Compliance Report
- Facilities Update

The next quarterly DAFIG meeting will be held on Tuesday, March 12, 2019.

Solid Waste Advisory Committee (SWAC)

October – Plans were discussed to tour DSWS facilities. The Strategic Planning/Budget committee recommended that the Chair send a letter to the County Executive making recommendations for the FY20 DSWS budget.

November – Leadership elections for the Montgomery County SWAC occurred. The 2019 Chair and Vice Chair were elected. Legislative and new applicants for membership were reviewed. Subcommittees reviewed their reports. David Biderman, Executive Director and CEO of SWANA, presented a "Big Picture Global Overview of Recycling." Don Birnesser, Section Chief, Central Operations Section of DSWS, discussed material markets and recycling contamination at the Montgomery County Recycling Center.

December – Holiday break; no meeting.

SWAC meetings are held on the 1st Wednesday of each month except July, August and December.

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 or recyclables were not collected.

October 2018	117
October 2017	145
Difference	- 28
November 2018	117
November 2017	104
Difference	+ 13
December 2018	92
December 2017	108
Difference	- 16

Resident Service Requests:

October 2018

22 gallon bin pick-up	542
22 gallon bin request	1,684
Bulk trash requests	2,821
Cart pick-up	26
Cart repair	465
65 gallon cart	150
35 gallon cart	123
Field check	355
Literature	306
Property damage/missing	18
Same day	343
Scrap Metal request	2,340

November 2018

22 gallon bin pick-up	464
22 gallon bin request	1,505
Bulk trash requests	2,404
Cart pick-up	14
Cart repair	389
65 gallon cart	119
35 gallon cart	113
Field check	428
Literature	236
Property damage/missing	32
Same day	358
Scrap Metal request	1,698

December 2018

22 gallon bin pick-up	316
22 gallon bin request	1,089
Bulk trash requests	2,239
Cart pick-up	9
Cart repair	256
65 gallon cart	88
35 gallon cart	71
Field check	353
Literature	150
Property damage/missing	12
Same day	231
Scrap Metal request	1,660

Outreach:

Survey Cards:

Our driver/clerk distributes a survey card at each container related service stop. Figures in tables are percentages.

In **October**, 437 cards were dropped off with a return rate of 13%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	95%	5%	0%	0%	0%
County Provided Collection Services	79%	19%	2%	0%	0%

In **November**, 297 cards were dropped off with a return rate of 13%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	100%	0%	0%	0%	0%
County Provided Collection Services	86%	8%	3%	0%	3%

In **December**, 498 cards were dropped off with a return rate of 11%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	90%	8%	0%	0%	2%
County Provided Collection Services	79%	15%	2%	2%	2%

Collection Section Enforcement Actions:

October:

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

November:

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

December:

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

Website:

Solid Waste Services Website

Metric	October 2018	November 2018	December 2018
Users	41,455	48,364	46,308
Sessions	61,607	74,835	73,248
Page Views	134,285	157,165	157,076

Email / Text Message List Memberships

Topic	Subscribers		
	October 2018	November 2018	December 2018
Civic Loop Newsletter	4,248 (-9)	4,244 (-4)	6,279 (2,035)*
Collection Reminders	19,987 (198)	20,323 (336)	20,887 (564)
Electronics Recycling	14,492 (70)	14,590 (98)	14,686 (96)
Expanded Polystyrene Ban	764 (6)	774 (10)	782 (8)
Facility Updates	9,919 (64)	10,020 (101)	10,101 (81)
Go Green	4,661 (-15)	4,644 (-17)	4,626 (-18)
HHW Announcements	11,342 (-28)	11,311 (-31)	11,278 (-33)
Holiday Reminders	22,472 (-63)	22,389 (-83)	22,325 (-64)
New Website Features	621 (4)	628 (7)	635 (7)
Paper Shredding	13,437 (49)	13,509 (72)	13,583 (74)
Quarterly Report	3,057 (1)	3,086 (11)	3,070 (2)
Recycling Volunteers -- Active	318 (0)	318 (0)	347 (29)
Recycling Volunteers -- Prospective	274 (0)	274 (0)	274 (-0)
SORRT Newsletter	3,789 (-11)	3,831 (42)	3,831 (0)
TRRAC Newsletter	2,611 (1)	2,618 (7)	2,732 (114)
Total Subscriptions	154,451 (267)	155,253 (549)	173,907 (3,395)

Most Popular Web Pages

October 2018	November 2018	December 2018
1. Transfer Station detail page	Holidays	Collection Day Lookup
2. Holidays	Collection Day Lookup	Holidays
3. Collection Day Lookup	Transfer Station detail page	Transfer Station detail page
4. Recycling, trash, and Yard Trim Programs – home	Recycling, trash, and Yard Trim Programs – home	Recycling, trash, and Yard Trim Programs – home
5. How Do I	How Do I	How Do I
6. Bulk Trash	Bulk Trash	Bulk Trash
7. DSWS home page	DSWS home page	DSWS home page
8. Webstore – Single Family	Webstore – Single Family	Webstore – Single Family
9. Paper Shredding	Paper Shredding	Webstore – Bins/Containers
10. Webstore – Bins/Containers	Webstore – Bins/Containers	What goes into blue bins

ADDITIONAL RECYCLING

Product Recycled	October FY19	FY19 YTD	October FY18	October FY17
TVs and PCs	98 tons	474 tons	107 tons	124 tons
Propane Tanks	2 tons	12 tons	3 tons	2 tons
Textiles	5 tons	25 tons	7 tons	5 tons
Construction Materials (Don't Dump – Donate)	0 tons	2 tons	0 tons	1 ton
Vehicle Batteries	12 tons	44 tons	5 tons	9 tons
Scrap Metal	683 tons	2,870 tons	658 tons	621 tons

Product Recycled	November FY19	FY19 YTD	November FY18	November FY17
TVs and PCs	55 tons	529 tons	153 tons	130 tons
Propane Tanks	2 tons	14 tons	2 tons	2 tons
Textiles	6 tons	31 tons	7 tons	7 tons
Construction Materials (Don't Dump – Donate)	0 tons	2 tons	0 tons	1 ton
Vehicle Batteries	7 tons	51 tons	5 tons	9 tons
Scrap Metal	523 tons	3,393 tons	593 tons	600 tons

Product Recycled	December FY19	FY19 YTD	December FY18	December FY17
TVs and PCs	116 tons	645 tons	104 tons	36 tons
Propane Tanks	5 tons	19 tons	1 ton	3 tons
Textiles	4 tons	35 tons	5 tons	5 tons
Construction Materials (Don't Dump – Donate)	0 tons	2 tons	1 ton	0 tons
Vehicle Batteries	6 tons	57 tons	3 tons	7 tons
Scrap Metal	483 tons	3,876 tons	488 tons	518 tons

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste (HHW) Collection – There were a total of 25,200 patrons to the program in the second fiscal quarter. During normal business hours we had 23,786 patrons; after 5:00 p.m. we had 1,414 patrons.

Small Quantity Generator/ECOWISE Program – There were 38 ECOWISE participants in this quarter that discarded 3.8 tons of business-related hazardous materials during the quarter.

WASTE REDUCTION

Bicycle Recycling – Approved nonprofit organizations removed 3 tons of bikes this quarter for local use as well as shipment to countries worldwide.

Paint Reduction – The Paint Store closed in October due to freezing temperatures, there were 60 gallons of latex paint given to two residents. DSWS donated 31 tons of latex paint to nonprofit organizations. We continued the Frozen Paint Pilot Program. The paint is frozen in a refrigerated storage container prior to being disposed of as MSW on the tipping floor. There were 137 tons of paint frozen and disposed of this quarter.

Straight Vegetable Oil (SVO) Recycling – The Transfer Station has a vendor that accepts Waste Vegetable Oil (WVO) for the sole purpose of biodiesel production. During the second 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 – In this quarter there were no reportable exceedances of air permit emission limits. On November 13, 2018, MDE performed a solid waste inspection of the facility. On December 10, 2018, the renewed Title V permit was received.

TES Contract (RRF Weather Station) – All the instrumentation worked normally except for the wind direction that was intermittently stuck at 10 degrees. It was replaced during the semi-annual calibration on November 13, 2018. Data recovery for all parameters except wind direction was 100 percent. Precipitation for the month of October was 2.23 inches, November was 7.69 inches and December was 5.58 inches.

WASTE REDUCTION AND RECYCLING

- Staff reviewed and drafted DEP's comments on MDE's Waste Reduction and Resource Recovery Plan Goals and Metric Recommendations; staff finalized DEP's response, and submitted them to MDE October 26.
- Staff coordinated and helped conduct a tour of the Material Recovery Facility and the Transfer Station on November 1 for CE's Aiming for Zero Waste/Sustainable Materials Management Task Force members.
- Staff provided HDR overview and details on investigations and enforcement efforts pertaining to solid waste laws, recycling regulations and legislation.
- Staff participated in the Montgomery Al Dia live radio and call-in program on November 13, to discuss Gift Outside the Box, as well as ways residents can help to ensure recyclables are cleaner and contamination-free.
- Staff provided support to the Executive Director of the Glen Echo Park Partnership for Arts and Culture by performing a waste audit of the park property and

buildings, and providing specific recommendations and assistance to improve their on-site recycling program.

Public Education and Outreach

- Staff from the Waste Reduction and Recycling Section and Recycling Program volunteers actively participated in 14 activities, events and training sessions reaching 4,763 people this quarter.
- Staff responded to two (2) questions pertaining to the ban on the use and sale of expanded polystyrene food service products and packaging peanuts; forwarded five (5) complaints of non-compliance to the Recycling Investigators for follow-up and investigation.
- Staff conducted a total of two (2) confidential paper shredding/recycling and clothing/household items reuse collection events this quarter. The results of the events are as follows:

Date	Location	Number of Vehicles	Total amount of confidential paper shredded/recycled and cardboard recycled
10/14/18	Damascus HS*	344	15,110 lbs.
11/3/18	Walter Johnson HS	580	32,130 lbs.

During these two events, residents donated clothing and household items to fill almost one box truck with donated materials for reuse.

- Staff and recycling volunteers participated in the annual Montgomery County Thanksgiving Parade in Silver Spring on Saturday, November 17, 2018. Recycling volunteers distributed 1,500 reusable bags to people along the parade route, to continue efforts to encourage residents to reduce waste during the holiday shopping season and beyond.
- Staff set-up an informational display on waste reduction, reuse and recycling tips at the Rockville Library in November. The display will remain until early January.
- Staff developed a broad-based strategic plan to reduce contamination levels of recyclable materials, and educate residents to reduce the amount of contamination they place in recycling bins. Information was included in the winter issues of the Civic Loop e-Newsletter, the Recycling Volunteer Program Recycleletter e-Newsletter, and the Multi-Family Recycling Program TRRAC e-Newsletter, which were all posted on the DSWS website and emailed to registered users. Also, staff is in the process of developing a recycling volunteer education canvassing project to provide door-to-door education to residents this Spring.

*Note that the weather was cold and rainy during this event which likely impacted turnout and participation.

- Waste Reduction and Recycling Section staff assisted with promoting DEP’s Think Outside the Box” holiday campaign, designed to increase awareness of and

promote tips to reduce, reuse and recycle during the holiday season and beyond. Staff coordinated with several local Chamber of Commerce offices to share the information to their members via their website and electronic and printed newsletters and emails blasts. Staff was interviewed on the Montgomery Al Dia program in November 2018 and provided information about this department-wide effort, including details how to reduce, reuse and recycle during the holiday season and beyond.

- Staff set-up an educational waste reduction, reuse and recycling display at the Brookside Gardens' Garden of Lights on December 18. Staff shared ideas how to reduce waste and recycle during the holiday season and beyond.
- Staff attended the MidAtlantic Food Recovery Summit on October 24 at Bowie State University to learn more about efforts in the state and region that are underway to promote recovery of food to feed others, as well as composting and other technologies to recycle food scraps.
- Staff is developing an on-line survey tool, designed for businesses that generate food scraps, to obtain additional information regarding their current efforts to donate and/or recycle their food scraps/food waste.
- Staff wrote content for press releases on: keeping medical waste items out of curbside recycling bins; glass recycling and the County's continued commitment to recycle glass; Christmas tree recycling; and drinking straws.
- Staff wrote a blog on glass recycling, as well as content for the website; staff continues to write and illustrate social media postings posted several times each week.
- Staff assisted numerous media representatives covering recycling-related stories, including WAMU radio; Bethesda Magazine; WJLA News; WDVM; and Montgomery Community Media.

On-Site Composting and Waste Reduction Activities – Staff and recycling volunteers continued to provide education and training to encourage and motivate residents to manage yard trim materials (grass clippings, leaves and garden trimmings) on-site through backyard/on-site composting and grasscycling. Staff accomplished the following:

- Distributed 277 backyard compost bins to residents.
- Ensured that all 21 compost bin pick-up locations throughout the County had an adequate supply of compost bins by fulfilling ten (10) requests to restock supplies with additional compost bins.
- Responded to five (5) requests for information or materials related to backyard composting/grasscycling.
- Conducted a web-based media campaign on backyard/on-site composting and disseminated information via the Division's Twitter account to encourage businesses and multi-family properties to use compost and provide information on how residents can obtain compost bins to compost yard trim materials.

Recycling Investigations Unit – Since the unit was established in 2005, a total of 83,735 site visits and 8,270 formal investigations have been conducted. During this quarter:

- 88 NOVs were issued to businesses and multi-family properties for infringements against the recycling regulations and Chapter 48.
- 11 citations were issued to businesses, collectors, and multi-family properties as follows:

# of Citations Issued	Reason for Citation	Citation issued to Business, Collector, Multi-Family Property, or Other
4	Failure to recycle required recyclable materials	Business
1	Failure to provide containers for required recyclable materials	Business
2	Failure to properly recycling collection service and storage space to residents	Business
2	Failure to collect and deliver to a recycling facility recyclable materials source separated from the solid waste stream	Collector
1	Failure to properly maintain the premises by permitting solid waste to be stored outside of approved storage containers	Multi-Family
1	Failure to provide alternate solid waste collection service within 24 hours of a missed collection	Collector
11	Total Number of Citations Issued	

Commercial Recycling and Waste Reduction –

- Staff from the Smart Organizations Reduce and Recycle Tons (SORRT) Program conducted 1,364 on-site visits to businesses, non-profit organizations, and Federal, State and County government facilities to monitor the status and progress of their recycling programs, and to recommend on-site recycling program improvements.
- Staff participated in 13 business-related educational events, reaching 874 employees.
- Staff resolved seven (7) complaints and responded to 152 requests for information and materials.

- Staff distributed the following types and quantities of recycling containers to businesses to increase on-site recycling efforts:

Desk-Side (13-gal) Recycling Bins	Slim Jim (23-gal) Recycling Bins
959	255

- The SORRT Program hosted a Recycling Oversight Committee (ROC) meeting for representatives from local, State and Federal government agencies on November 8, 2018. The meeting provided an opportunity for participants to learn about America Recycles Day and to share ideas on how to raise awareness of their recycling efforts.
- Staff requested a total of 589 Annual Business Recycling and Waste Reduction Reports covering calendar year 2018. Large businesses must file their annual report by February 1, 2019; medium businesses, selected small businesses, and owners of commercial multi-tenant facilities/properties must file their report by March 1, 2019.
- Two webinars have been scheduled to educate businesses on how to file their annual recycling report electronically. The two webinars are scheduled for January 9, and January 23, 2019.

Multi-Family Recycling and Waste Reduction –

- Staff from the Think, Reduce and Recycle at Apartments and Condominium (TRRAC) Program conducted 308 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 8 multi-family property educational events, reaching 176 people.
- Staff responded to 62 requests for information and resolved 22 complaints.
- Staff conducted a webinar on December 19 for multi-family property and community managers on Filing Annual Recycling and Waste Reduction Reports Online; two property/community managers participated. A second webinar is scheduled for January 18, 2019.
- The December issue of the TRRAC Quarterly Newsletter was emailed to the 2,733 subscribers.
- Staff distributed the following types and quantities of recycling containers to multi-family apartments and condominiums to increase on-site recycling efforts:

Baby Blue (6-gal) Recycling Bins	Slim Jim (23-gal) Recycling Bins	WasteWatcher XL (32-gal) Recycling Bins
3,219	32	117

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 58 Recycling Program volunteers, some participating in multiple events, contributed almost 285 hours of their time to support waste reduction, reuse and recycling activities this quarter.

- Five (5) recycling volunteer provided over 51 hours of office assistance.
- Eighteen (18) recycling volunteers participated in six (6) community events and provided over 93 hours of direct service and interacted with 1,932 residents.
- Twenty-one (21) recycling volunteers contributed almost 89 hours of service during the paper shredding/recycling and clothing/household items reuse collection events on October 14 and November 3, 2018.
- Thirteen (13) volunteers contributed 49 hours of time to assist DSWS in the annual Montgomery County Thanksgiving Parade in Silver Spring.
- One (1) Neighborhood Block and Building Recycling Captain volunteer provided two (2) hours of education and information about waste reduction, reuse, recycling and backyard composting to four neighbors.
- Staff continued to recruit new recycling volunteers. During this quarter, 19 new recycling volunteers and seven (7) applicants were recruited.
- Nineteen (19) new recycling volunteers, and one current recycling volunteer, attended and participated in one of two recycling volunteer orientation and training sessions.
- As of December 31, 2018, there are a total of 341 active recycling volunteers registered in the Recycling Volunteer Program.

Food Waste

- Staff prepared a presentation on the County's food waste program to be presented at the Maryland Food Recovery Summit on October 24 at Bowie State University.
- Staff spoke with Veteran Compost; Prince William County, VA staff; Freestate Farms; Prince George's County, MD staff; and others to discuss capacity, tip fees and other relevant details to keep current.
- Staff updated data and created information summaries on the commercial generators of food waste and estimated tonnages.
- Staff contacted the recycling contacts of Giant Food and Whole Foods that prepare and submit their annual waste reduction and recycling reports, Giant Food corporate offices, as well as the regional office of Whole Foods to begin discussions about their current practices concerning food waste, the County's program and plans, and partnerships to increase recycling of food waste.

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.

EOB Cafeteria Food Scrap Recycling Model Project – DEP continued to monitor the model food scrap recycling collection project in the Executive Office Building (EOB) cafeteria.

- To date (November 1, 2011 – November 30, 2018), a total of 146.8 tons of pre-consumer food scraps has been collected and recycled.
- Staff continues to monitor the collection area daily and check for feedback from cafeteria staff on a regular basis.
- Staff continues to monitor the food scrap recycling collection containers for the cafeterias at the Council Office Building (COB) and the Public Safety Headquarters Building (PSHQB).
- Compostable bags were distributed to all three locations this quarter.

FACILITY ACTIVITIES

Resource Recovery Facility (RRF) –

RRF processed	158,281 tons / 1,720 per day
RRF tours	4
RRF exported power	82,746,000 kilowatt-hours to the power grid
Ferrous material recovered from ash	3,358 tons

There was no bypass this quarter. Average boiler availability was 96% while the plant ran at 84% capacity based on steam flow.

High solids in the river, combined with a clarifier being rebuilt, required loads be reduced due to limited demineralized water from the Reverse Osmosis system. A major transformer bus failure tripped the plant as we lost the turbine and had to process waste without selling electricity. In addition, units were down to repair tube leaks, grate bars and to unplug an ash discharger. There was a need to purchase 1,517.5 MWh of electricity during the quarter.

Recycling Center – The production continued as two separate and distinct operations to better account for the operational and production aspects between the commingled material and the new mixed paper processing facility. Between the two operations, the Recycling Center received more than 19,912 tons of recyclable materials of which more than 8,105 tons of incoming commingled recyclable materials and more than 11,807 tons of cardboard, mixed paper, and other paper-related materials were processed and/or exported to commodity vendors and processors under contractual agreements.

The commingled material line shipped out 1,522 tons of material this quarter; of that total 64% was glass or 1,869 tons. Due to system processing capacity limitations 3,387 tons of commingled material were exported under cooperation agreements as well.

Regular and preventative maintenance programs continued on both the commingled and paper sorting systems, and interval hour maintenance was performed on the loaders and other rolling stock equipment; and routine repair and maintenance was performed on all processing equipment and rolling stock. The commingled system incurred 3.8% of system downtime and the paper system incurred 3.63% of system downtime during the quarter. Collectively, our combined processing systems incurred 7.43% of system downtime. This downtime was primarily attributable to equipment maintenance and component failure.

Housekeeping efforts were standardized as part of our regular maintenance program and all equipment is routinely shut down 15 minutes prior to the end of the shift to allow for work station and equipment clean-up.

Oaks Landfill

Landfill Gas – The 2.4-Megawatt landfill gas-to-energy (LFGE) facility continues to operate with minor periods of outage due to normal maintenance requirements and routine emissions testing. In December 2018, APTIM completed the installation of the new extraction wells. APTIM is currently monitoring the new extraction wells to determine the effectiveness of the newly installed extraction wells and the gas quality. The landfill gas collection system is operational, and the monitoring probes are generally in compliance.

Nature and Extent Investigation (NEI) – MDE has approved the Nature and Extent Investigation – Alternative Approach. Staff is coordinating with its contractor (SCS Engineers) to develop a schedule for implementing the phased new monitoring well installation and abandonment to characterize groundwater contamination as part of the approved NEI – Alternative Approach. Staff is currently evaluating the phased groundwater monitoring well installation and abandonment for funding purposes. Initial funding for planning efforts with a technical consultant (SCS Engineers) was included under Task Order #24 under an optional task, which was approved in FY19 and associated Purchase Order.

Leachate Pretreatment Facility – Normal landfill leachate treatment and hauling of the pretreated leachate to the Transfer Station discharge point continues unremarkably. DSWS Leachate Pretreatment Facility O&M Contractor concluded testing of the influent and effluent leachate to compare against new WSSC discharge limits and associated modified WSSC discharge permit was issued and became effective October 1, 2018.

Groundwater Monitoring – The Fall 2018 semi-annual groundwater monitoring report was submitted to MDE on December 28, 2018. The NEI quarterly sampling event will take place on January 30-31, 2019.

Gude Landfill

Landfill Gas – The Landfill Flare System is operational (including the gas collection system). DEP's landfill gas contractor (APTIM) has developed a preliminary approach to install a venting trench to address elevated methane gas concentrations in monitoring probe (W-18). DEP reviewed and provided comments on the preliminary venting trench plans. Once the review comments are addressed and the venting trench approach is approved by MDE, the contractor can install the venting trench to help eliminated exceedances near monitoring probe (W-18). DEP continues weekly monitoring of the landfill gas probes.

Soil Stockpile Project – Soil stockpiling was initiated on July 19, 2018. Based on the schedule and available excavation sites, the Purple Line Contractor has hauled soil to the landfill from July through December 2018. During this period, approximately 30,000 cu yds have been hauled to the Gude Landfill. Through a contract with the County's Department of Transportation, the Construction Management/Inspection firm (Gannett Fleming, Inc.) has been at the landfill site to document project activities. DEP received an inquiry from The Anderson Company about hauling suitable material to Gude Landfill. The County and its contractor (Gannett Fleming, Inc.) are coordinating with the Purple Line to authorize The Anderson Company to haul suitable material to Gude Landfill.

Landfill Remediation Design Engineer Contract – Monthly Progress Meetings have occurred during this quarter. DEP reviewed and provided comments on the 30% Basis of Design Document. The County and its contractor (EA Engineering) have recently initiated permitting meetings to understand which permits are required for this project. The Gude Landfill Concerned Citizens (GLCC) will hold its next meeting on February 21, 2019, and future meetings will be scheduled on a monthly basis.

Groundwater Monitoring – The Fall 2018 semi-annual groundwater monitoring report was submitted to MDE on December 28, 2018. The Spring 2019 semi-annual groundwater sampling event will take place in March 2019.

Beantown Dump Project

DEP continues to perform quarterly methane gas monitoring of the eighty-eight (88) above grade venting wells, which are part of the County's passive gas venting system at the former Beantown Dump. The former Beantown Dump is located in proximity of Dover Road and East Gude Drive in Rockville, MD. Staff is currently preparing letters to each of the property owners of the former Beantown Dump to transmit DEP's methane monitoring results.

DEP continues to review historical methane monitoring data, perform research for potential equipment to support gas mitigation efforts, and anticipates the development of a preliminary project plan in 2nd Quarter 2019.

Solid Waste Transfer Station – Covanta shipped 157,747 tons of processible waste via rail from the Transfer Station for the first quarter of FY19 compared to 147,245 for the same period last year.

The inbound radiation detectors had 12 total alarms this quarter – 11 alarms by vehicles whose loads were identified as containing low levels of medical isotopes with short half-lives in the solid waste; and one (1) alarm from a driver who had undergone recent medical tests. The Public Unloading Facility radiation detectors had no alarms occur this quarter.

Transfer Station Enforcement – Under Chapter 48 of the Montgomery County Code, a total of 72 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>	0	1	4	5
48/10	<i>Depositing solid waste at other than approved placed prohibited.</i>	0	0	1	1
48-11	<i>Illegal dumping, dumping without written permission</i>	0	0	0	0
48-19(a)(1)	<i>Transporting Solid Waste without a valid Collectors/Hauler tag</i>	0	0	0	0
48-19(a)(2)(a)	<i>Improper or no tarps on resident vehicle</i>	12	2	0	14
48-19(a)(2)(b)	<i>Transporting solid waste without a canvas or tarp covering the load tightly Commercial</i>	26	2	0	28
48-19(a)(3)	<i>Person cannot engage in business of collecting or transporting solid waste without obtaining a license</i>	0	1	0	1
48-20(a)	<i>Un-permitted Vehicle of a Licensed Company</i>	22	1	0	23
48-20(c)	<i>3-inch high letters required on vehicle</i>	0	0	0	0
48-20(d)	<i>Unsafe Vehicle</i>	0	0	0	0
48-22	<i>Permit Required for Transporting trash from Out of State into County</i>	0	0	0	0
	TOTALS	60	7	5	72

Site 2 Landfill Properties – The Department of General Services (DGS) Real Estate is in the process of preparing the Draper farm house and the Wasche Road house to be rented. The Maryland Department of Natural Resources (MD DNR) informed the County that a new permitting process for year-round deer management would be effective January 1, 2019. Staff is investigating how to continue with the current program at Site 2.

Yard Trim Compost Facility –

October, November and December	FY19	FY18
Materials composted in tons	36,750 tons	22,398 tons
Materials diverted to back-up composting facilities	0	0
LeafGro™ shipped	8,362 cu yds.	5,417 cu yds.
LeafGro™ bagged shipped to distributors (Each bag is 1.5 cubic feet weighing 45 lbs.)	203,000 bags	163,500 bags

OUT-OF-COUNTY HAUL

Old Dominion Landfill, Richmond, VA – Approximately 45,976 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 removed from the ash both at the RRF and during the screening process at Old Dominion Landfill.

Mountain View Reclamation Landfill, Greencastle, PA – Approximately 11,980 tons of non-processibles were sent to Greencastle, PA in this quarter of FY19 compared to 5,781 tons for the same period last year.

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)
Recycling Center	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 DEP	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	598,514 (CY16)
Latest Recycling and Waste Diversion Rate Reported in Montgomery County	61% (CY16)
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 FY18, 57,355 tons of yard trim were received at the Dickerson facility.</p>
# Residences receiving trash collection by County contractors	92,085
# Residences receiving collection of recyclables in blue bins and yard trim collection	218,374
Transportation and recycling or beneficial reuse of ash residue from the RRF.	Through a task order with the Northeast Maryland Waste Disposal Authority, who in turn has a contract with BFI Waste Systems of Virginia, LLC, doing business as Old Dominion Landfill, that goes from July 1, 2017 through June 2024 with an optional 7 year renewal.

GLOSSARY OF ACRONYMS

BTU	British Thermal Unit
CEMS	Continuous Emissions Monitoring System
COB	Council Office Building
Cu yd	Cubic Yard
CY	Calendar Year
DAFIG	Dickerson Area Facilities Implementation Group
DGS	Department of General Services
DEP	Department of Environmental Protection
DSWS	Division of Solid Waste Services
ERP	Enterprise Resource Planning
EOB	Executive Office Building
FY	Fiscal Year
GLCC	Gude Landfill Concerned Citizens
HHW	Household Hazardous Waste
kWh	Kilowatt-hours
LFGE	Landfill Gas-to-Energy
MD DNR	Maryland Department of Natural Resources
MDOT/MTA	Maryland Department of Transportation / Maryland Transit Administration
MES	Maryland Environmental Services
MWh	Mega Watt hours
NEI	Nature and Extent Investigation
NOV	Notice of Violation
PSHQ	Public Safety Headquarters
ROC	Recycling Oversight Committee
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
WSSC	Washington Suburban Sanitary Commission
YTD	Year-To-Date