



DEPARTMENT OF
**ENVIRONMENTAL
PROTECTION**



Montgomery County, Maryland

DIVISION OF SOLID WASTE SERVICES

QUARTERLY REPORT

JANUARY, FEBRUARY, AND MARCH 2016

(3rd Quarter of FY16)



Montgomery County Division of Solid Waste Services faced its share of obstacles during the 2016 snow storm.

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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. As of July 1, 2014 the Shady Grove Processing and Transfer Station began soil screening operations to increase rubble and soil recycling. (County Fiscal Year 2016 began July 1, 2015.)

FACILITY	Jan FY16	FY16 YTD	Jan FY15	Jan FY14
Materials Recovery Facility ⁽¹⁾	4,921 tons	41,993 tons	6,462 tons	6,460 tons
Brunswick Landfill Facility ⁽²⁾	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽³⁾	43,135 tons	355,292 tons	45,609 tons	49,585 tons
Yard Trim Compost Facility	1,496 tons	45,730 tons	3,370 tons	1,778 tons
Honeygo Run Reclamation ⁽⁴⁾	321 tons	3,594 tons	610 tons	508 tons
Other Rubble and Soil Recycling ⁽⁵⁾	744 tons	28,708 tons	837 tons	0 ton
Ash Recycling (Old Dominion LF) ⁽⁶⁾	11,072 tons	101,589 tons	13,287 tons	13,154 tons

FACILITY	Feb FY16	FY16 YTD	Feb FY15	Feb FY14
Materials Recovery Facility ⁽¹⁾	6,465 tons	48,458 tons	4,628 tons	4,952 tons
Brunswick Landfill Facility ⁽²⁾	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽³⁾	42,671 tons	397,963 tons	37,626 tons	36,424 tons
Yard Trim Compost Facility	646 tons	46,376 tons	424 tons	661 tons
Honeygo Run Reclamation ⁽⁴⁾	218 tons	3,812 tons	1,172 tons	562 tons
Other Rubble and Soil Recycling ⁽⁵⁾	612 tons	29,320 tons	402 tons	0 ton
Ash Recycling (Old Dominion LF) ⁽⁶⁾	11,850 tons	113,439 tons	11,351 tons	10,241 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) As of July 1, 2014, the Shady Grove processing Facility and Transfer Station began soil screening operations to increase rubble and soil recycling.

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

FACILITY	Mar FY16	FY16 YTD	Mar FY15	Mar FY14
Materials Recovery Facility ⁽¹⁾	6,170 tons	54,628 tons	6,148 tons	5,387 tons
Brunswick Landfill Facility ⁽²⁾	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽³⁾	45,152 tons	443,115 tons	43,947 tons	46,749 tons
Yard Trim Compost Facility	2,978 tons	49,354 tons	1,201 tons	1,277 tons
Honeygo Run Reclamation ⁽⁴⁾	510 tons	4,322 tons	132 tons	1,002 tons
Other Rubble and Soil Recycling ⁽⁵⁾	2,622 tons	31,942 tons	981 tons	0 ton
Ash Recycling (Old Dominion LF) ⁽⁶⁾	11,119 tons	124,558 tons	10,856 tons	12,630 tons

(1) MRF tons reported as outgoing.

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(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.

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

(6) 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 2016 totaling \$3,582,523.45 (an increase of \$483,975.53 above the same quarter in 2015);
- Updated the Aging Report (30-day average arrearage was less than \$10,000 per month for the quarter);
- Reconciled January, February, and March 2016 tons to monies posted in ERP, as well as to the total dollars charged in Paradigm;
- Submitted the FY17 budget to County Council for their review; and
- Performed a review of prior-year encumbrance balances and remaining budget balances.

CITIZEN COMMITTEES

Dickerson Area Facilities Implementation Group (DAFIG) – DAFIG met on Tuesday, March 8, 2016. Topics discussed included the following:

- Ground Water Monitoring
- Stream Monitoring
- DEP Complaint Report
- SWAC Update
- Abstract for a new report that ties together all three RRF-related environmental reports with focus on consistencies/inconsistencies

The next quarterly DAFIG meeting will be held on Tuesday, June 14, 2016.

Solid Waste Advisory Committee (SWAC)

January – Susanne Brunhart-Wiggins presented an overview of the DEP/DSWS website. Peter Karasik presented an update on the Gude landfill remediation, and an overview of the transfer station and MRF operations.

February – **Robin Ennis discussed the County's options for collecting and managing food scraps to help obtain the County's 70% recycling goal.**

March – Section Chiefs presented their annual budgets.

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 2016	39
January 2015	53
Difference	-14

February 2016	50
February 2015	29
Difference	+21

March 2016	61
March 2015	45
Difference	+16

Resident Service Requests:

January 2016

22 gallon bin pick-up	372
22 gallon bin request	1,421
Bulk trash requests	1,226
Cart pick-up	7
Cart repair	241
65 gallon cart	138
35 gallon cart	42
Field check	226
Literature	77
Property damage/missing	16
Same day	192
Scrap Metal request	952

February 2016

22 gallon bin pick-up	513
22 gallon bin request	1,717
Bulk trash requests	1,333
Cart pick-up	5
Cart repair	324
65 gallon cart	142
35 gallon cart	88
Field check	210
Literature	65
Property damage/missing	30
Same day	172
Scrap Metal request	1,047

March 2016

22 gallon bin pick-up	497
22 gallon bin request	1,592
Bulk trash requests	2,230
Cart pick-up	16
Cart repair	313
65 gallon cart	143
35 gallon cart	105
Field check	249
Literature	193
Property damage/missing	23
Same day	220
Scrap Metal request	1,895

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, 708 cards were dropped off with a return rate of 13%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	94%	5%	0%	0%	1%
Service Request Fulfillment	79%	19%	1%	1%	0%

In February, 1,094 cards were dropped off with a return rate of 9%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	97%	3%	0%	0%	0%
Service Request Fulfillment	74%	23%	1%	2%	0%

In March, 1,232 cards were dropped off with a return rate of 11%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	90%	9%	0%	1%	0%
County Provided Collection Services	67%	26%	6%	1%	0%

Collection Section Enforcement Actions:

January:

- Citations: None issued.
- Notices of Violation: None issued.

February:

- Citations: There were five (5) issued under the same code.
 - Collecting and transporting solid waste within the County without a collectors tag 48-20a.
- Notices of Violation: There were four (4) Notice of Violation issued.
 - Depositing solid waste on a public highway 48-11.

- Collecting and transporting solid waste within the County without a valid collection sticker 48-20a.
- Improperly storing and/or permitting solid waste to accumulate 48-24b.
- Improperly storing and/or permitting solid waste to accumulate 48-24b.

March:

- Citations: None issued.
- Notices of Violation: There were two (2) Notices of Violation issued.
 - Establishing, operating or maintaining a solid waste acceptance facility within the County 48-09.
 - Allowing the accumulation of Solid Waste upon such property to be carried or deposited by the elements upon any street or other private property 48-24b.

Website:

Solid Waste Services Website

Metric	January 2016	February 2016	March 2016
Users	67,467	38,614	29,166
Sessions	115,915	59,846	46,435
Page Views	200,442	118,568	111,867

Email List Memberships

Topic	Subscribers (new this month)		
	January 2016	February 2016	March 2016
Holiday Reminder	26,106 (6)	25,504 (1)	26,330 (2)
Holiday Reminder (by route)	4,795 (1,318)	5,071 (293)	3,502 (99)
HHW Announcements	12,942 (0)	12,780 (0)	13,062 (25)
Facility Updates	7,468 (245)	7,479 (102)	7,245 (89)
Electronics recycling	11,325 (297)	11,350 (125)	11,100 (137)
Expanded Polystyrene Ban news and updates	196 (51)	212 (16)	150 (18)
Go Green	5,156 (0)	5,109 (0)	5,207 (16)
Civic Loop	4,282 (30)	4,214 (11)	4,291 (4)
SORRT Newsletter	3,512 (28)	3,480 (11)	3,511 (4)
TRRAC Newsletter	2,117 (27)	2,118 (10)	2,112 (7)
Quarterly Report	2,732 (43)	2,732 (16)	2,717 (10)
Paper Shredding Events	9,121 (233)	9,238 (164)	8,931 (127)
Recycling Volunteers – Active	160 (0)	160 (0)	160 (0)
Recycling Volunteers – Prospective	210 (0)	210 (0)	210 (0)
Learn about new web features	152 (35)	165 (14)	175 (10)
Total Subscriptions	90,122 (2,313)	89,657 (763)	90,615 (1,081)

Most Popular Web Pages

January 2016	February 2016	March 2016
1. DSWS home page	Holidays	Drop-off hours and events
2. Holidays	Drop-off hours and events	Recycling, Trash, and Yard Trim programs – home
3. Recycling, Trash, and Yard Trim Programs – home	DSWS home page	Web Store – home page
4. Drop-off hours and events	Recycling, Trash, and Yard Trim Programs – home	Bulk trash
5. Collection Day Lookup	How do I...	Transfer Station – home page
6. Transfer Station – home page	Web Store – home page	How do I...
7. How do I...	Transfer Station – home page	DSWS home page
8. Christmas trees	Bulk trash	Holidays
9. Web Store – home page	Web Store – Single-family recycling containers	Web Store – Single-family recycling containers
10. Bulk trash	Collection Day Lookup	Request a...

ADDITIONAL RECYCLING

Product Recycled	Jan FY16	FY16 YTD	Jan FY15	Jan FY14
TV's and PC's	166 tons	1,032 tons	165 tons	129 tons
Propane Tanks	1 ton	14 tons	0 ton	1 ton
Textiles	8 tons	68 tons	11 tons	10 tons
Construction Materials (Don't Dump – Donate)	0 ton	10 tons	0 ton	1 ton
Vehicle Batteries	4 tons	62 tons	4 tons	3 tons
Scrap Metal	397 tons	3,428 tons	290 tons	284 tons

Product Recycled	Feb FY16	FY16 YTD	Feb FY15	Feb FY14
TV's and PC's	104 tons	1,136 tons	119 tons	116 tons
Propane Tanks	2 tons	16 tons	2 tons	0 ton
Textiles	16 tons	84 tons	7 tons	6 tons
Construction Materials (Don't Dump – Donate)	1 ton	11 tons	1 ton	0 ton
Vehicle Batteries	9 tons	71 tons	6 tons	5 tons
Scrap Metal	466 tons	3,894 tons	261 tons	287 tons

Product Recycled	Mar FY16	FY16 YTD	Mar FY15	Mar FY14
TV's and PC's	138 tons	1,274 tons	152 tons	107 tons
Propane Tanks	2 tons	18 tons	1 ton	3 tons
Textiles	14 tons	98 tons	10 tons	13 tons
Construction Materials (Don't Dump – Donate)	1 ton	12 tons	1 ton	2 tons
Vehicle Batteries	9 tons	80 tons	8 tons	6 tons
Scrap Metal	747 tons	4,641 tons	332 tons	337 tons

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste (HHW) Collection – There were a total of 15,411 patrons to the program in the third fiscal quarter (January, February, March). During normal business hours we had 14,734 patrons; after 5:00 p.m., we had 677 patrons.

Small Quantity Generator/ECOWISE Program – There were 46 ECOWISE participants in the third quarter that discarded 4.90 tons of business related hazardous materials during the quarter.

WASTE REDUCTION

Bicycle Recycling – “Bikes for the World” and several other non-profit organizations removed 2 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 reuse program remained closed for the season during the third quarter, as such, no latex paint was given to County residents, or donated to nonprofit organizations. Paint that does not have the ability to be reused or donated is solidified and further processed which resulted in 7,175 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 bio-diesel production; in the third 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 exceedence of air permit emission limits 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 January was 6.00 inches; February was 4.35 inches and March was 1.84 inches.

WASTE REDUCTION AND RECYCLING

Public Education and Outreach – DEP staff and Recycling Program Volunteers participated in a total of 23 community education and outreach events and activities this quarter, reaching an estimated total audience of 2,496 people. The ban on the use and sale of expanded polystyrene food service ware and loose fill packing peanuts became effective on January 1, 2016. DEP Staff continued to answer questions from businesses and residents about the ban. The DSWS informational fact sheet posted on the DEP website was updated with copies being distributed at events and during on-site visits to businesses conducted by SORRT Program staff. DEP also conducted several presentations to inform businesses and residents about the ban on expanded polystyrene food service ware. During the quarter, DEP staff responded to fifteen (15) telephone calls regarding the ban on expanded polystyrene food service products. Planning for activities and events for Earth Month (April 2016) began in earnest. As of March 31, there are **65 special events and activities that DEP’s staff and recycling volunteers are scheduled to participate in.** The first of three spring confidential paper shredding and recycling, and clothing/household item reuse collection events will take place on Sunday, April 10 from 10 am to 2 pm at Sherwood High School in Olney. Staff

worked with employees at Meadowside Nature Center to plan for and host a compost bin distribution event for residents. The event will take place on Friday, April 1 from 4 – 7 pm in the parking lot of the Nature Center. Recycling program volunteers will be **on-site to demonstrate the composting process and answer questions at DEP’s compost bin demonstration site** at Meadowside. The event has been advertised online, via social media, and in the Montgomery County edition of the Local Living section of The Washington Post.

On-Site Composting and Waste Reduction Activities – A total of 391 backyard compost bins were distributed between January 1, and March 31, to encourage residents to compost their leaves and grass clippings on-site in a continuing effort to reduce the amount of yard trim materials that require processing by the county. DEP staff participated in two compost workshops/seminars during the period at the Montgomery County Master Gardener Compost Training, and the Master Gardener Spring Conference. DEP increased the number of compost bin distribution sites where residents can obtain a backyard compost bin. The two new locations include Potomac Garden Center in North Potomac and Meadowside Nature Center in Rockville. These two new locations bring the total number of compost bin distribution sites to 22 locations, several of which offer evening and weekend hours. Staff received and completed 12 requests for quantities of compost bins be delivered to stock the distribution sites during this period. Staff responded to five (5) requests for information or materials during this quarter.

Recycling Investigations Unit – Since the unit was established in 2005, 68,016 site visits and 6,683 formal investigations have been conducted. For the period from January 1, through March 31, 226 NOVs were issued to businesses and multi-family properties for infringements against the recycling regulations and Chapter 48. A total of 14 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; 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 business for failure to provide containers for required recyclable materials; one (1) citation was issued to a multi-family property for failure to file an annual waste reduction and recycling report; and one (1) citation was issued to a business for failure to provide and maintain an approved container for storage of solid waste.

Commercial Recycling and Waste – SORRT Program staff conducted 3,013 site visits to businesses this quarter. During this same period, DEP staff resolved five (5) complaints, participated in 18 educational events reaching 1,158 people, distributed 1,344 desk-side (7-gallon) recycling bins and 131 slim jim (23-gallon) recycling containers to businesses to help set-up and/or improve existing recycling programs. Staff responded to 211 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 2015. Of the 590 businesses required to submit an annual recycling report, 12 large businesses and 116 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 enforcement follow-up. The SORRT Program held two webinars (January 13 and January 20) to provide guidance to businesses, encouraging them to submit their annual recycling report on-line in an effort to reduce printing and mailing costs. A total of 60 people, including business managers, owners, employees, property owners and managers representing numerous types of businesses, logged on to view and participate in the webinars. On March 22, the SORRT Program held a business recycling seminar at the Sheraton in Silver Spring to provide business owners, **managers, employees and property management staff with information on the County's** recycling and solid waste regulations. DEP staff hosted the quarterly Recycling Oversight Committee meeting on March 3. Four members representing local and federal government facilities participated in a meeting highlighting recycling container capacity and resources available through the Department. The next Recycling Oversight Committee meeting will be held in June. The Spring issue of the SORRT Network Newsletter is being drafted and will be sent out in April.

Multi-Family Recycling and Waste Reduction – During the period of January 1, through March 31, TRRAC Program staff conducted 835 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 9 multi-family property educational events, reaching 225 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 184 requests for information; resolved seven (7) complaints; and distributed 2,206 baby blue (6-gallon) multi-family recycling bins, 19 Slim Jim (23-gallon) recycling containers, 39 WasteWatcher XL (32-gallon) recycling containers, two (2) Brute (44-gallon) recycling containers, and 13 Glutton (55-gallon) recycling containers to multi-family properties to increase available recycling capacity. TRRAC staff and Recycling Program Volunteers distributed more than 1,120 bi-lingual **"Recycle More Now at Your Apartment or Condominium!"** educational door hangers at an event held on January 9 at Summit Hills Apartments in Silver Spring. Two email notices were sent to 871 property managers (representing 680 multi-family properties). The first was to notify property managers that the online annual reporting system was back on line and ready for use. The second reminded property managers of the February 1 filing deadline for submitting their Multi-Family Annual Recycling and Waste Reduction Reports. An email invitation for the January 9 Multi-Family Recycling Seminar was sent to 976 property managers and property staff. The seminar was held at the DoubleTree Bethesda and was attended by 30 multi-family property managers and staff. The TRRAC Program conducted a webinar on January 20 to educate multi-family property managers about the on-line annual recycling report system. A total of 22 property and community managers participated in the webinar. The Annual Multi-Family Recycling and Waste Reduction Reports were due on February 1. As of March 31, 669 multi-

family properties had submitted their annual reports. DEP Recycling Investigators are working to obtain the annual reports from three (3) remaining multi-family properties. TRRAC staff are conducting field verifications of all multi-family annual recycling reports that have been submitted.

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 47 Recycling Program Volunteers, some of them participating in multiple events, contributed almost 167 hours of their time to support recycling activities from January 1, through March 31. One (1) volunteer provided almost 42 hours of office assistance which included filing, counting and bundling educational materials for distribution at outreach events. During this quarter, 20 volunteers participated in four (4) community outreach events and provided 62 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, Habitat for Humanity Rockville Restore Grand Opening, Montgomery Village Home Show and Kites over Clarksburg. Additionally, 15 volunteers contributed almost 38 hours of **service preparing for and participating in the Gaithersburg St. Patrick's Day Parade to promote the County's goal to reduce waste and recycle 70 percent by 2020**, and to encourage viewers to use alternative recyclable products in place of expanded polystyrene food service ware and loose fill packaging items. In January, seven (7) recycling volunteers contributed 21 hours of service to distribute informational recycling door hangers about recycling at Summit Hills Apartments in Silver Spring. Volunteer recruitment and training efforts continued during this quarter with DEP staff attending three (3) volunteer fairs in February at the Gaithersburg, Rockville and Takoma Park/Silver Spring campuses of Montgomery College in February, providing information about recycling volunteer opportunities. During the course of these volunteer recruitment drives, DEP recruited 25 applicants and 144 prospect volunteers. The recycling volunteer program also recruited 21 new volunteers, an additional 17 volunteer applicants and 13 volunteer prospects from outside of the volunteer fairs. **Twenty-one (21) new volunteers received information about the County's various recycling and solid waste programs** during two (2) new volunteer orientation sessions held this quarter on February 27 and March 22. Two (2) recycling volunteers also contributed four (4) hours of time assisting during the orientation sessions. The next new volunteer orientation training is scheduled for Saturday, May 22. There are 329 active recycling program volunteers as of March 31. Staff will be attending two (2) volunteer fairs on April 19 and April 20.

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 for the EOB cafeteria. During the course of the project to-date (November 1, 2011 – February 29, 2016) in which pre-consumer food scraps are separated for recycling collection, a total of 79.2 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.

FACILITY ACTIVITIES

Resource Recovery Facility (RRF) – The RRF processed a total of 130,958 tons for the quarter, or an average of 1,439 tons per day. During this time, 12 tours of the plant were given. The plant exported 58,565,000 kilowatt-hours to the power grid. About 2,580 tons of ferrous material was recovered from the ash and recycled. The turbine came down for major maintenance causing the plant to purchase 929,400 kilowatt-hours of power. The plant was down for three days while scheduled cold iron and black plant maintenance was performed. During this quarter, Unit #3 was down for its scheduled major maintenance outage, and Unit #1 was down for a scheduled minor outage. Also, units came down to conserve fuel; to repair a water wall tube failure, superheater tube leaks, grate bars, and an ash discharger failure; and to clear superheater fouling and plugging in the economizer.

During the outages, Unit 3's intermediate superheater bundles were replaced to reduce the potential for future tube leaks; the scrubber wall received a 20-foot band of c-22 material to better resist corrosion, erosion and potentially reduce fouling; and the hoppers on last two baghouse cells were rebuilt to eliminate tramp air.

The Maryland Occupational Safety and Health (MOSH) performed an inspection for the **plant's MOSH VPP** Star program recertification. The facility will be recommended for recertification as a result of the inspection.

Materials Recovery Facility (MRF) – The following items were addressed: due to wear or damage, five conveyor belts were replaced; one pulley and three sets of bearings were replaced; due to corrosion, one of the processing equipment safety guards was replaced to ensure the protection of workers; due to a crack in the cooling system that had been progressively getting worse over the years, the hydraulic cooler on baler #2 was replaced; tires were replaced on two forklifts, rubber cutting edges on two of the material loaders were replaced; both pit conveyors were cleaned and excess liquid material vacuumed out; bearings and bushing on one forklift were replaced; 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 continued to operate. The issues related to frequent utility trips appear to be resolved by Pepco and Verizon.

Groundwater Quality Update - SCS Engineers is doing a two-year groundwater monitoring evaluation to assess whether an expansion of the gas collection system is helping to reduce volatile organic compounds (VOCs) in groundwater. The County sends 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. So far, data from three sampling events has been analyzed, and no significant conclusions are evident yet.

The annual air emissions testing (i.e. stack testing) was completed in February, and the initial reports indicate that Oaks Landfill is in compliance. The EPA has confirmed Oaks Landfill is not required to report 2015 GHG emissions, and will not be required to report going forward unless emissions exceed 25,000 metric tons CO₂ during a calendar year.

CB&I completed the gas sampling around the landfill for the first quarter gas monitoring events in March and no exceedances were noted.

In March, DEP performed the quarterly inspection of Stormwater outfalls at the Oaks Landfill. There were no non-stormwater discharges observed at any of the outfall locations.

Gude Landfill – The 0.8 MW Megawatt landfill gas-to-energy (LFGE) facility continues to operate. In January, DEP personnel met with MDE to discuss the separation of waste from the groundwater table, metals exceedances in groundwater and stormwater runoff evaluation, etc. During the meeting, MDE discussed reconsideration of the remediation approach in view of drilling data obtained in September/October 2015. **DEP's consultant drilled through the landfill in September 2015** to identify the bottom of the waste and the groundwater elevation. Due to confirmation of a separation between the waste and the groundwater table, DEP is considering an alternative remediation approach involving partial capping. DEP received a sixty (60) day extension to submit the revised ACM (April 30, 2016).

The methane gas monitoring wells on the northwest boundary of the Gude Landfill adjacent to the gas line right-of-way and the Derwood Station community have been largely in compliance (except three weeks in February) with MDE standards for gas control (i.e., less than 5 percent methane by volume in wells at the property line). There have been continued exceedances with well #26S and #28S near the pond off of

the 600 East Gude Drive entrance, and the operations contractor, CB&I, is proposing to convert the monitoring probe #26S into an extraction well and install a new probe within the vicinity of existing probe. Gas monitoring data is regularly provided to the Gude Landfill Concerned Citizens (GLCC) which includes current and historical results.

The annual emission testing (i.e. stack testing) was completed in February and the initial reports indicate that Gude landfill is in compliance. The EPA has confirmed Gude Landfill is not required to report 2015 GHG emissions and will not be required to report going forward unless emissions exceed 25,000 metric tons of CO₂ during a calendar year.

CB&I completed the gas sampling around the landfill for the first quarter gas monitoring events in March and only a few exceedances were noted. These are being addressed by the contractor.

In March, DEP performed the quarterly inspection of Stormwater outfalls at the Gude Landfill. There were no non-stormwater discharges observed at any of the outfall locations.

The monthly meeting, upon request, between GLCC (i.e. the community) and DEP was held on March 10, 2016. DEP staff apprised the community of the current status of the ACM revisions. The meetings will continue throughout the remediation process at the Landfill. 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 located near the intersection of Gude Drive and Dover Road.

DEP completed the quarterly gas monitoring in March. Results indicated reduced methane concentrations at the old dump site, after Phase I, Passive Venting Monitoring (PVM), well enhancements. However, monitoring reports still indicate exceedances of lower explosive limits in several wells.

ERM completed the evaluation of the results and stated that average methane concentrations at the modified wells has continued to decrease. All ~~of the~~ wells, but most significantly the modified wells, have been improving at an increasing rate, indicating that the modifications are effective. Modifications included the vertical extension of the gas venting wells and the addition of passive turbines to increase the rate of gas flow from the wells.

Solid Waste Transfer Station – Covanta shipped 143,630 tons of processible waste via rail from the Transfer Station for the third quarter of FY16 compared to 117,119 for the same period last year.

The inbound radiation detectors had 16 total alarms this quarter – 12 alarms by vehicles whose loads were identified as containing low levels of medical isotopes with short half-lives in trash; 4 alarm from drivers who had undergone recent medical tests. The Public Unloading Facility radiation detectors had ten 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 275 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>	17	1	1	19
48-10	<i>Unlawful to dispose of, deposit or leave solid waste at other than an approved Transfer Station</i>	1	0	1	2
48-11	<i>Illegal dumping, dumping in another's container, dumping solid waste on a public right-of-way</i>	0	0	1	1
48-19(a)(1)	<i>Transporting Solid Waste without a valid Collectors/Hauler tag</i>	0	1	1	2
48-19(a)(3)	<i>Person cannot engage in business of collecting or transporting solid waste without obtaining a license</i>	0	1	2	3
48-19(a)(2)b	<i>Transporting solid waste without a canvas or tarp covering the load tightly Commercial</i>	20	12	4	36
48-19(2a)(a)	<i>Improper or no tarps on resident vehicle</i>	170	13	2	185
48-20(a)	<i>Un-permitted Vehicle of a Licensed Company</i>	1	8	8	17
48-20(d)	<i>Unsafe Vehicle</i>	0	0	1	1
48-22	<i>Permit required for transporting trash from out of State into County</i>	1	0	3	4
48-24(c)	<i>Container Standards must be maintained</i>	0	1	0	1
48-48(a)	<i>Disposing of Solid Waste Acceptable for Recycling (Generators)</i>	0	1	0	1
	TOTALS	210	38	27	275

Site 2 Landfill Properties – A Department of General Services (DGS) contractor repaired the failed septic system at the Chiswell house. The ground will need be

graded where it was disturbed. The Wasche Road house repairs were completed and DGS, Office of Real Estate, is beginning the rental process. In addition, DEP distributed **new deer management permits to Patriot's Whitetail Removal Team members.**

Yard Trim Compost Facility – The facility received 5,120 tons of material for composting this quarter; this compares with 4,995 tons of materials received during the same period last year. No material was diverted to back-up composting facilities this quarter. There were 9,361 cubic yards of bulk LeafGro™ shipped this quarter; compared to 5,241 cubic yards for the same period last year.

Bagging Operation – 95,150 bags of LeafGro™ were shipped to distributors this quarter. This compares with 147,400 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 FY16 approximately 34,041 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 1,050 tons of asphalt, soil, concrete, and brick and block and other non-processibles were sent to the Honeygo Run Recycling site in Perry Hall, Maryland, for construction and demolition debris recycling or disposal for the third quarter of FY16.

DOT Pad Recycling – Since July 2014, Covanta has been operating the DOT pad for construction and demolition recycling, as well as operating a soil screening operation. In the third quarter, 3,978 tons of concrete and dirt were processed and sent to vendors for recycling.

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/useitagain www.montgomerycountymd.gov/yardtrim www.montgomerycountymd.gov/veggieoil

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	609,151 (CY13)
Latest Recycling and Waste Diversion Rate Reported in Montgomery County	60.18% (CY13)
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 FY15, 67,471 tons of yard trim were received at the Dickerson Facility.</p>
# Residences receiving trash collection by County contractors	91,433
# Residences receiving collection of recyclables in blue bins and yard trim collection	215,409
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2017 including an approval option for a five-year renewal. (Service started October 20, 1997.)

GLOSSARY OF ACRONYMS

ACM	Assessment of Corrective Measures Work Plan
BTU	British Thermal Unit
CB&I	Chicago Bridge and Iron Company
CEMS	Continuous Emissions Monitoring System
DAFIG	Dickerson Area Facilities Implementation Group
DEP	Department of Environmental Protection
DGS	Department of General Services
DOT	Department of Transportation
DSWS	Division of Solid Waste Services
EA	EA Engineering, Science, and Technology, Inc.
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
MCL	Maximum Contaminant Level
MDE	Maryland Department of the Environment
MES	Maryland Environmental Services
M-NCPPC	Maryland-National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NOV	Notice of Violation
PVM	Passive Venting Monitoring
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
WSSC	Washington Suburban Sanitary Commission
WVO	Waste Vegetable Oil
YTD	Year-To-Date