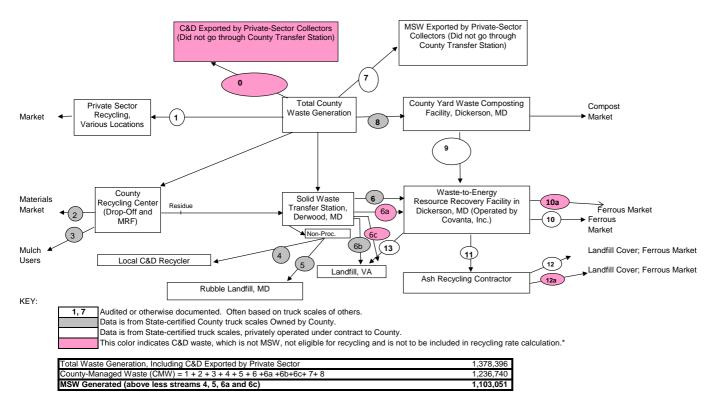
MATERIAL FLOW DIAGRAM Calendar Year 2017



Stream	Material	Sources of Data	Total	
No.	Description		(tons/yr)	Comments
0	Construction & Demo Debris Private Export* (Recycled &	Licensed Collector Reports under ER 5-13AM	141,656	Not County-managed, includes both disposed and recycled C & D
1	Recycled via non-County Facilities	Collector, Processor, Business & Self-Hauler Rpts.	290,633	Filtered to avoid double-counting
2	County Recycling Facility Material Sales	County TS & MRF Scales, Outbound	78,492	Outgoing to market from County Recycling Center & Penn Waste
3	Mulch Loaded Out From TS	County Transfer Station (TS) Scale Records	29,009	Scaled out as taken to County Mulch Contractor & Preserve Locations
4	Non-Processibles Recycled**	County TS Scale Out Records		Not included in MRA recycling calculation
5	Non-Processibles Landfilled**	County Trans. Stat'n. & Covanta Scale Records	14,937	Not included in MRA recycling calculation
6	Loaded on Rail to RRF (MSW burned)	Covanta Scales as Loaded	502,199	Total tons loaded on rail to RRF Net of 6a
6a	Loaded on Rail to RRF (C&D Burned)	County Transfer Station (TS) Scale Records	72,963	In-Bound C&D less Outbound Non-Processibles Landfilled or Recycled
6b	By-pass (Accepted Processible Landfilled)	County TS Scale Out Records	28,942	MSW shipped to landfill
60	By-pass (Accepted Processible Landfilled) C&D	County Transfer Station (TS) Scale Records	4,205	In-Bound C&D less Outbound Non-Processibles Landfilled or Recycled
7	Refuse Disposed Out of County	Audited 6-Mo. Hauler Reports	118,296	Private Sector MSW Collection not delivered to CountyTS
8	All Incoming Leaves and Grass	Compost Facility & TS Scale Records	55,480	Includes 0 to Backup Composters
9	Composting Residue to RRF	MES Scale Records	-	Reported by Compost Facility Manager
10	Ferrous recovered at RRF	Covanta Scale Records	7,039	Recovered from ash at County Facility
10a	Ferrous recovered at RRF (C&D Residue)	Internal Calculation	1,023	Not included in MRA recycling calculation
11	Ash Loaded to Ash Recycling Contractor	Republic Monthly Report	178,756	Total ash (includes 12, 12a, and 13)
12	Ash outgoing from Ash Recycler	Republic Monthly Report	156,080	Included in MRA recycling calculation
12a	Ash outgoing from Ash Recycler (C& D Residue)	Internal Calculation	22,676	Not included in MRA recycling calculation
1.3	All Ash not recycled	Coventa Scale Records	-	

Montgomery County Recycling Rate and Waste	Numerator	Denominator	Rate		
Recycling Rate	(1 + 2 + 3 + 8 - 9 + 10 + 12) / (CMW - 4 - 5 -6a -6c)	616,733	1,103,051	55.91%	
Waste Diversion Rate ***	((1 + 2 + 3 + 8 - 9 + 10 + 12) / (CMW - 4 - 5 -6a - 6c)) + 5.0%	616 733	1 103 051	60 91%	

Notes:

- * Construction and Demolition waste (C&D) is waste identified by place of origin construction or land clearing sites. C&D is reported on
- licensed hauler reports, but there may be additional C&D tons not reported and therefore not included in stream 0.
- ** Nonprocessibles are Construction & Demolition-type materials: not eligible for recycling credit, but are County-managed solid waste.
- *** Diversion Rate = Recycle Rate + 5.0% Source Reduction Credit

Nomenclature:

- "C&D" means "Construction and Demolition" waste, exclusive of MSW, traditionally managed by the private sector, but much now comes to County TS. "CMW" means "County Management Waste". It includes all MSW, whether or not exported by private sector collectors, but only C&D delivered to TS. "MSW" stands for "Municipal Solid Waste", and represents the waste eligible for recycling under the State recycling law, regulations and guidelines.

- "TS" stands for the County's "Transfer Station", located in Derwood, Maryland, just south of Gaithersburg.
- "MRF" stands for Material Recovery Facility "RRF" stands for Resource Recovery Facility