### MATERIAL FLOW DIAGRAM
Calendar Year 2015

#### Stream No. | Material Description | Sources of Data | Total (tons/yr) | Comments
--- | --- | --- | --- | ---
0 | Construction & Demo Debris Private Export* (Recycled & Landfilled) | Licensed Collector Reports under ER 92-99 | 144,989 | Not County-managed, includes both disposed and recycled C & D
1 | Recycled via non-County Facilities | Collector, Processor, Business & Self-Hauler Rpts. | 296,590 | Filtered to avoid double-counting
2 | County Recycling Facility Material Sales | County TS & MRF Scales, Outbound | 79,926 | Outgoing to market from County Recycling Center
3 | Mulch Loaded Out From TS | County Transfer Station (TS) Scale Records | 25,300 | Sold out as taken to County Mulch Collector & Preserve Locations
4 | Non-Processibles Recycled** | County TS Scale Out Records | 43,813 | Not included in MRA recycling calculation
5 | Non-Processibles Landfilled** | County Trans. Staff. & Covanta Scale Records | 7,025 | Not included in MRA recycling calculation
6 | Ferrous recovered at RRF (C&D Burned) | Covanta Scale Records | 511,122 | Total tons loaded on rail to RRF Net of 6a
6a | Ferrous recovered at RRF (C&D Burned) | County TS Scale Out Records | 88,128 | In-Bound C&D less outbound Non-Processibles Landfilled
6b | By-pass (Accepted Processable Landfilled) | County TS Scale Out Records | - | -
7 | Refuse Disposed Out of County | Audited 6-Mo. Hauler Reports | 136,800 | Private Sector MSW Collection not delivered to County TS
8 | All Incoming Leaves and Grass | Compost Facility & TS Scale Records | 66,773 | Includes = 0 to Backup Composters
9 | Composting Residue to RRF | MRF Scale Records | - | Reported by Compost Facility Manager
10a | Ferrous recovered at RRF (C&D Residue) | Covanta Scale Records | 9,368 | Recovered from ash at County Facility
11 | Ash Loaded to Ash Recycling Contractor | Allied Monthly Report | 172,674 | Total ash (includes 12, 12a, and 13)
12 | Ash outgoing from Ash Recycler (C&D Residue) | Internal Calculation | 147,450 | Included in MRA recycling calculation
12a | Ash outgoing from Ash Recycler (C&D Residue) | Internal Calculation | 25,424 | Not included in MRA recycling calculation
13 | Ash not recycled | Covanta Scale Records | - | -

### Montgomery County Recycling Rate and Waste Diversion Rate Calculations (MRA Method)

<table>
<thead>
<tr>
<th>Recycling Rate</th>
<th>Numerator</th>
<th>Denominator</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1 + 2 + 3 + 4 + 5 + 6 + 6a)</td>
<td>625,407</td>
<td>1,116,511</td>
<td>56.01%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Waste Diversion Rate ***</th>
<th>Numerator</th>
<th>Denominator</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1 + 2 + 3 + 4 + 5 + 6 + 12a)</td>
<td>625,407</td>
<td>1,116,511</td>
<td>61.01%</td>
</tr>
</tbody>
</table>

### 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