**MATERIAL FLOW DIAGRAM**

**Calendar Year 2012**

**Total Waste Generation, Including C&D Exported by Private Sector**
1,336,422

**County-Managed Waste (CMW)** = (1 + 2 + 3 + 4 + 5 + 6 + 6a + 7 + 8) / (CMW - 4 - 5 - 6a)
1,186,728

**MSW Generated (above less streams 4, 5 and 6a)**
1,080,344

---

**Stream No.**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Sources of Data</th>
<th>Total (tons/yr)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Construction &amp; Demo Debris Private Export</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Ferrous recovered at RRF</td>
<td>Covanta Scale Records</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Composting Residue to RRF</td>
<td>MES Scale Records</td>
<td>8,602</td>
</tr>
<tr>
<td>4</td>
<td>C&amp;D Exported by Private-Sector Collectors (Did not go through County Transfer Station)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Non-Processibles Landfilled**</td>
<td>County Yard Waste Composting Facility, Dickerson, MD (Operated by Covanta, Inc.)</td>
<td>470,182</td>
</tr>
<tr>
<td>6a</td>
<td>Loaded on Rail to RRF (MSW burned)</td>
<td>Covanta Scale Records</td>
<td>71,480</td>
</tr>
<tr>
<td>6b</td>
<td>Landfill Cover</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>Ash Recycling Contractor</td>
<td></td>
<td>2,965</td>
</tr>
<tr>
<td>8</td>
<td>C&amp;D Exported by Private-Sector Collectors (Did not go through County Transfer Station)</td>
<td></td>
<td>20,170</td>
</tr>
<tr>
<td>9</td>
<td>Non-Metal Outgoing from Ash Recycler</td>
<td></td>
<td>132,134</td>
</tr>
<tr>
<td>10</td>
<td>Non-Metal Outgoing from Ash Recycler (C&amp;D Residue) Internal Calculation</td>
<td></td>
<td>453</td>
</tr>
<tr>
<td>11</td>
<td>C&amp;D Exported by Private-Sector Collectors (Did not go through County Transfer Station)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Non-Metal Outgoing from Ash Recycler</td>
<td></td>
<td>2,965</td>
</tr>
<tr>
<td>14</td>
<td>Non-Metal Outgoing from Ash Recycler (C&amp;D Residue) Internal Calculation</td>
<td></td>
<td>453</td>
</tr>
</tbody>
</table>

---

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

**Numerator**

- **Recycling Rate**
  \[(1 / 2 + 3 + 8 + 9 + 10 + 12 + 13) / (CMW - 4 - 5 - 6a)\] = 592,148
- **Waste Diversion Rate**
  \[(1 / 2 + 3 + 8 + 9 + 10 + 12 + 13) / (CMW - 4 - 5 - 6a) + 5.0%\] = 592,148

**Denominator**

- **Recycling Rate**
  1,080,344
- **Waste Diversion Rate**
  1,080,344

**Rate**

- **Recycling Rate**
  54.8%
- **Waste Diversion Rate**
  59.8%

**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.
- **Non-Processibles** 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
- **"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

**Nomenclature:**

- Audited or otherwise documented. Often based on truck scales of others.
- Data is from State-certified County truck scales Owned by County.
- Data is from State-certified truck scales, privately operated under contract to County.
- This color indicates C&D waste, which is not MSW, eligible for recycling and is not to be included in recycling rate calculation.