Fairfax County’s Glass Recycling
Eric Forbes
Agenda

- Background
- Glass
- Glass uses
- Projects
Background

• System Dynamics
  – 90% private/10% publicly collected
• Single Stream Recycling
• Contamination & Cost
  – Get to true recycling
• Environmental Improvement
  – Get to true recycling
Single Stream Glass

- MRF Glass
  - No Value
  - Highly contaminated
  - Leftovers from sorting
  - Anything under 2”

LANDFILLS
The Purple Can Club Partnership

- Fairfax County, Arlington County, City of Alexandria, and Prince William County
- Joint press release in April 2019
- Same Color & Style Purple Cans
  - Limited orifice size
- No residency restrictions
End of Curbside- October 2019

• Glass no longer accepted in Curbside Bin
• Place in Purple Bins or in Trash
• Media event for this release

Glass Communication

• Media Coverage
  – NBC 4, USA 9, ABC 7
  – WAMU
  – Kojo Nnamdi
  – Waste360
  – Channel 16
  – US News & World Report

• Outreach
  – YouTube
  – Facebook, Twitter
  – Next-door
  – Web Articles
  – Local Newsletters
  – Podcasts
The Purple Can Club - New partners

- Loaner Bin Program
- Flexible Operational Support
- Anyone can bring clean glass $15/Ton
Purple Can Club Locations

RECYCLE your clean, empty, and dry GLASS We’re CRUSHING it!

Scan the QR code to learn more about glass recycling in Fairfax County
Clean Glass
Glass to Glass

• Strategic Materials, Inc., Wilson, NC
• Carry All Products (CAP) Glass, Mount Pleasant, PA
Construction Applications

• ROW use - VDOT approved
  • Bedding & backfill
• Stormwater
  • Choker coarse (bioretention, sand filters)
  • Bio-soil
  • Erosion & sediment control
• Trail base
• Aesthetic
  • Countertops
  • Concrete finishing
  • Ground cover
Glass Aggregate Cost

- **Glass Gravel- $8/ton**
  - #8 Stone (Pea Gravel) - $23/ton
- **Glass Sand- $5/ton**
  - #25 & #26 - $13.50/ton
  - Manufactured Sand- $21.00/ton

*Does not include transportation cost*
Glass Numbers

SS COMPARISON
FY19 ~ FY21

<table>
<thead>
<tr>
<th></th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>*Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY19</td>
<td>1,556</td>
<td>1,543</td>
<td>1,392</td>
<td>1,498</td>
<td>954</td>
<td>1,396</td>
<td>1,516</td>
<td>1,094</td>
<td>1,258</td>
<td>1,402</td>
<td>1,306</td>
<td>1,301</td>
</tr>
<tr>
<td>FY20</td>
<td>1,474</td>
<td>1,363</td>
<td>1,305</td>
<td>1,346</td>
<td>1,237</td>
<td>1,410</td>
<td>1,083</td>
<td>945</td>
<td>1,084</td>
<td>1,027</td>
<td>1,021</td>
<td>849</td>
</tr>
<tr>
<td>FY21</td>
<td>923</td>
<td>990</td>
<td>912</td>
<td>497</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GLASS INBOUND
by week (tons)
Flatlick Sewer Rehabilitation
Lower Potomac Ballpark Basin Project
Waterline Pipe Repair
For additional information please contact:

Eric Forbes
eric.forbes@fairfaxcounty.gov
703.324.5498

https://www.fairfaxcounty.gov/publicworks/recycling-trash/recycle