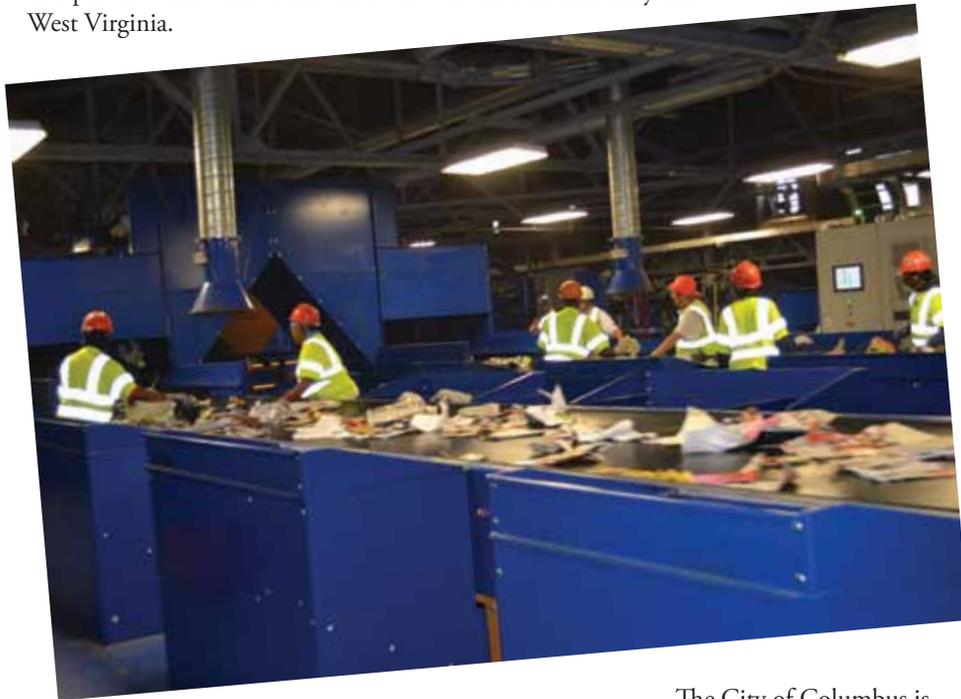


MRF of the Month

Rumpke's Columbus Material Recovery Facility

Located minutes from downtown Columbus and the third largest university in the U.S., Ohio State University, Rumpke's Columbus Material Recovery Facility will be processing recyclables for more than 300,000 homes by the end of 2012.

The 68,000-square-foot facility receives single-stream material collected curbside and via drop-off boxes from communities throughout Central, Northern and Southern Ohio, including Dublin, Gahanna, Hilliard, Reynoldsburg and Westerville. The MRF also processes materials from solid waste districts in Kentucky and West Virginia.



The City of Columbus is instituting a citywide single-stream household recycling program this year, adding 227,000 households to Rumpke's service territory.

Rumpke's Columbus MRF re-opened in Aug. 2011 after a \$15 million renovation, including an installation of a single-stream processing system provided by Machinex, with Bollegraaf balers. The facility is the first full system Machinex has designed with Rumpke, though the firms have worked together on other facilities in Columbus and Dayton, Ohio as well as the one in Georgetown, Kentucky.

According to Rumpke, the MRF features a state-of-the-art mixed glass clean-up system – with screens, trommels, metal detection and air separation – as well as five optical scanners. The container sorting line includes flat fraction separators, magnets and an eddy current separator. In partnership with the Carton Council, the facility added cartons (including milk cartons, chicken broth cartons and juice boxes) to its accepted materials, with a dedicated optical scanner to separate the containers from the recycling mix.

With a throughput of 30 tons per hour, the facility is expected to process 95,000 to 100,000 tons of recyclables in 2012. The MRF's material mix is split approximately in half between fiber and containers (aluminum cans, cartons, glass bottles/jars, plastic bottles and steel cans). The biggest issues facing the Rumpke Columbus MRF are the standard contamination, including building materials, non-container glass, non-bottle plastics and the bane of MRF operators



Technical Specifications*

Rumpke's Columbus Material Recovery Facility

Location:
Columbus, Ohio

Start-up date:
Following upgrade, Aug. 1, 2011

Number of processing lines:
Two: one primary line for residential/commercial single-stream materials and one commercial line to feed a baler

Throughput:
30 tons per hour (prior to upgrade, it was 15 tons per hour)

Tons of material processed in 2012 (anticipated):
Approximately 100,000 tons

Residue rate:
5-7 percent

everywhere, plastic bags.

Rumpke runs two shifts at the Columbus MRF and employs about 35 people per shift, for a total of nearly 70 employees. The company employs 260 people from its Columbus location, including drivers, mechanics, equipment operators, laborers, office personnel, sales representatives and managers and supervisors.

*Know of a North American MRF that you feel *Resource Recycling* readers should know about? If so, e-mail your recommendation, with high-resolution pictures, to dylan@resource-recycling.com, and your facility may just be highlighted in a future “MRF of the Month” column.

