



R·R·R·A·S·O·C

2017 Annual Report

Member Communities

**Farmington
Farmington Hills
Milford
Milford Township
Novi
South Lyon
Southfield
Walled Lake
Wixom**

Board of Directors

Chairman

Fred Zorn, City Administrator, Southfield

Vice Chairman

Lynne Ladner, City Manager, South Lyon

Treasurer

Chelsea Pesta, Assistant City Manager, Walled Lake

Secretary

Gary Mekjian, Assistant City Manager, Farmington Hills

David Boyer, City Manager, Farmington Hills

David Murphy, City Manager, Farmington

Christian Wuerth, Village Manager, Milford

Don Green, Township Supervisor, Milford Township

Pete Auger, City Manager, Novi

L. Dennis Whitt, City Manager, Walled Lake

Steve Brown, City Manager, Wixom

Designated Board Alternates

Chuck Eudy, Director, Farmington Department of Public Services

Robert Calley, Director, Milford Department of Public Services

Victor Cardenas, Assistant City Manager, Novi

John Michrina, Deputy City Administrator, Southfield

Tim Sikma, Director, Wixom Department of Public Works

RRRASOC Staff

Michael Csapo, General Manager

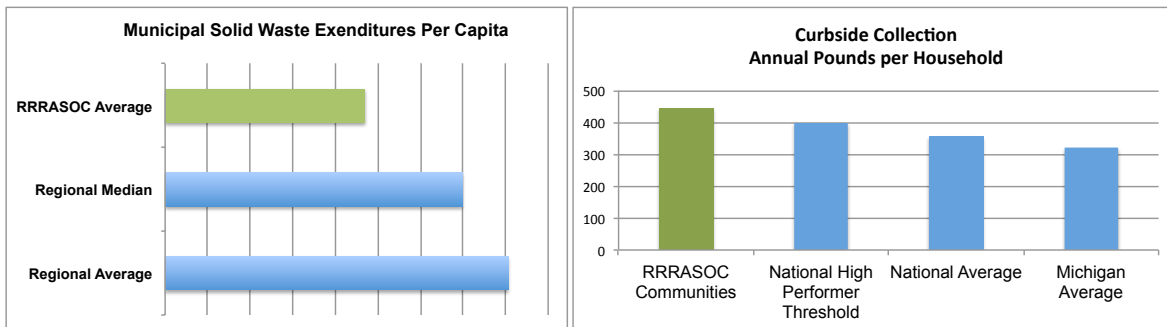
Laura Shaw, Administrative Secretary

Tracy Purrenhage, Recycling Coordinator

In 2017, RRRASOC continued to help its communities provide first class solid waste and recycling services to their residents by focusing on local solutions that feature some of the best practices found throughout the country. Intergovernmental cooperation, public private partnerships, and competitive contracting with private sector expertise remained hallmarks of our approach.

Notable activities in 2017 included:

- The rebuilt RRRASOC Material Recovery Facility (MRF) completed its first full year of operations and ran at full capacity;
- A new, state-of-the-art fire detection and suppression system was installed in the MRF. The new Fire Rover system uses thermal imaging and high definition cameras to remotely monitor the facility and provide an onsite rapid response to developing threats;
- The Simple Recycling clothing reuse and recycling program was expanded;
- A new benchmark study showed that the recycling program performance of the combined RRRASOC communities placed them in the “high performing” category among communities surveyed nationwide;
- Participation records were set in five of the six household hazardous waste collection events, with total participation approaching 8,000 residents.



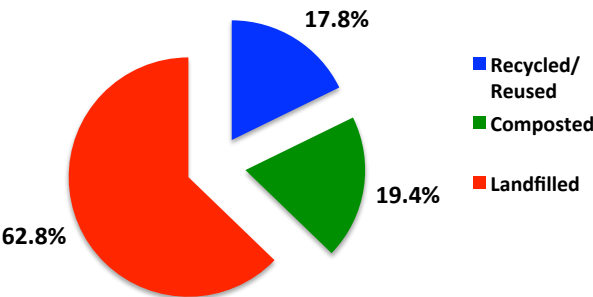
Nearly 36,000 tons of yard waste, recyclables, and household hazardous waste items were collected through the RRRASOC collection programs and diverted from local landfills. RRRASOC’s overall recycling rate was 37.2%, which compares favorably to Michigan’s 15%, as well as the national average of 35%.

Lifecycle analysis shows that recapturing those resources for value-added economic activity also yielded significant environmental benefits, including the following:

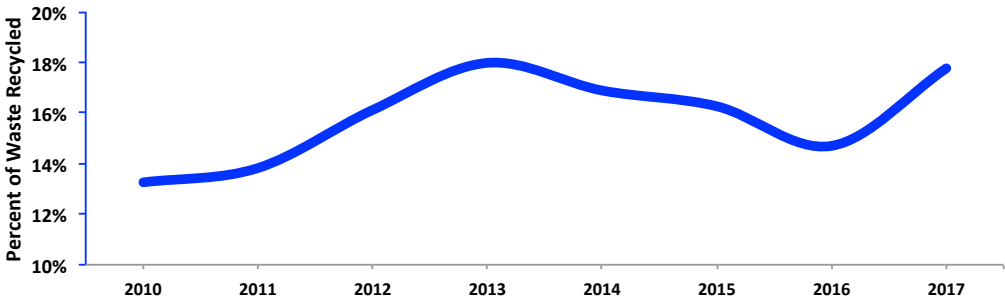
- Conserved more than 169 billion Btu, the equivalent of the annual energy consumption of 1,678 households;
- Preserved nearly 127,000 trees;
- Reduced waterborne pollution emissions by 71 tons;
- Reduced airborne emissions by 19,000 metric tons of carbon equivalent.



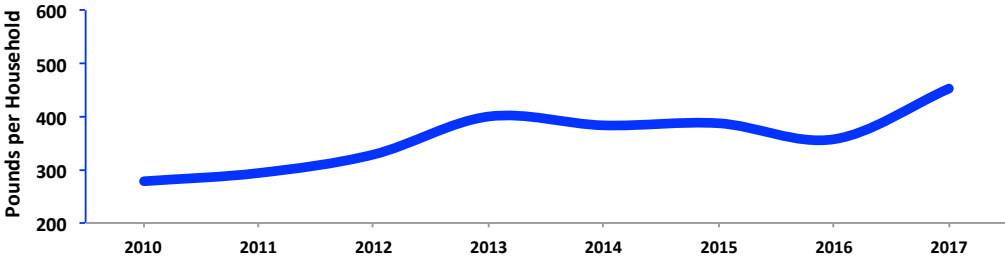
Solid Waste Disposition: 2017



Recycling History



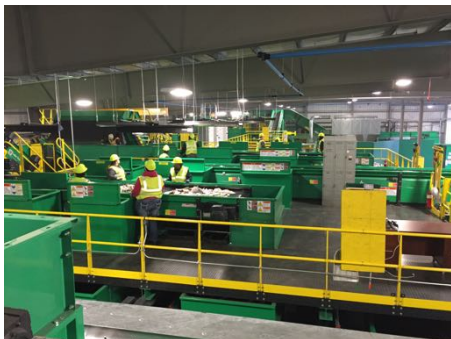
Recycling History Curbside Collection



RRRASOC's MRF operating partner, ReCommunity Recycling, operated the MRF at full capacity, running two production shifts per day, six days per week. In the third quarter of 2017, an acquisition of ReCommunity Recycling by Republic Services was finalized. RRRASOC's new partner is the nation's second largest solid waste and recycling services company and is expected to meet and exceed industry standards for operating the MRF.



Overall, the facility processed 95,175 tons during the year, with 17.4% representing recycling from the 71,700 RRRASOC area homes, as well as material from the RRRASOC drop-off centers. Our communities combined for more than 16,526 tons of paper, glass, plastic, and metal that was processed at the MRF and shipped throughout the U.S. and abroad, providing valuable feedstock for manufacturers.



RRRASOC's Household Hazardous Waste (HHW) collection program had record participation in 2017, with nearly 8,000 residents attending the six events to take advantage of the opportunity to recycle and properly disposed of the hazardous material found in their homes. Participation records were set at five of the six events, with the sixth event nearly matching the previous record.

More than 455,000 pounds of material were collected in 2017, which is 18% more material than collected the prior year. The material was comprised of the following:

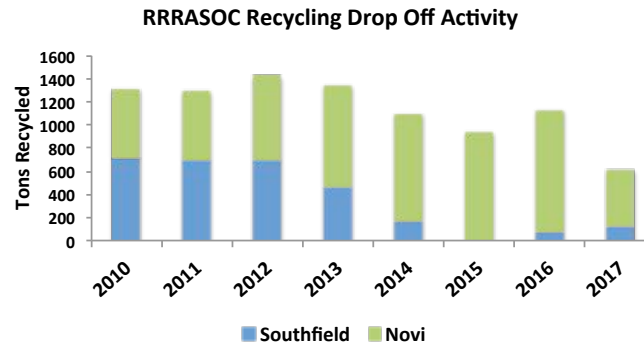
- Used electronic equipment = 55.3%
- Herbicides, pesticides, and other toxic products = 9.2%;
- Lead acid and dry cell batteries = 8.0%;
- Motor oil = 7.8%;
- Oil-based paint = 6.2%;
- Other flammable liquids = 3.9%;
- The remaining 9.6% fell into 14 other categories of hazardous materials.

ERG Environmental Services, a local hazardous waste company, handled the material. Disposal and recycling costs through ERG continued to be the lowest in southeast Michigan. All material was handled in accordance with state and federal laws. Document shredding was also provided at each event.



RRRASOC's recycling drop-off centers continued to be a popular recycling option for many throughout the region. Last year, nearly 617 tons were brought to the sites.

The drop-off center in Novi accounted for 483 tons of recycling, with the Southfield location contributing another 134 tons.



In 2017, the City of Southfield joined Farmington, the Village of Milford, Milford Township, Farmington Hills, Walled Lake, Wixom, and South Lyon in participating in the weekly curbside collection of clothing and small household goods by Simple Recycling.

Designed to complement charitable giving by our homeowners, the program offers an opportunity to ensure that household goods that might otherwise be landfilled are integrated back into the value chain. During the year, nearly 412,000 pounds were collected for reuse and recycling, which represents a 65.5% increase from 2016.



RRRASOC continued to use of a multi-platform approach to community outreach and homeowner education. Last year's efforts complemented the communication programs of our individual communities with the following:

- 72,000 direct mail educational postcards were sent;
- 29,784 material searches using our online Recycling Directory were conducted;
- Downloads of the Recycling Directory mobile application grew to nearly 1,100;
- Subscribers to our monthly electronic newsletter increased to nearly 1,900;
- 36 tours of the MRF were given, involving more than 500 visitors;
- Five offsite classroom presentations were given to 166 students;
- 1,368 new resident packets were distributed.



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20000 W. 8 Mile Road
Southfield, MI 48075
248.208.2270
248.208.2273 fax
www.RRRASOC.org

**Resource Recovery and Recycling Authority of Southwest Oakland County
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