

Roseville Public Works, Environment and Transportation Commission Meeting Agenda

Tuesday, March 26, 2013, at 6:30 p.m.
City Council Chambers, 2660 Civic Center Drive
Roseville, Minnesota 55113

- 6:30 p.m. **1. Introductions/Roll Call**
- 6:35 p.m. **2. Public Comments**
- 6:40 p.m. **3. Approval of February 26, 2013 Meeting Minutes**
- 6:45 p.m. **4. Communication Items**
- 6:50 p.m. **5. Metro Transit Service Discussion**
- 7:10 p.m. **6. Recycling Community Values Discussion Continued**
- 7:40 p.m. **7. Solar Energy Presentation**
- 8:10 p.m. **8. LED Retrofit Plan**
- 8:25 p.m. **9. Possible Items for Next Meeting – April 23, 2013**
- 8:30 p.m. **10. Adjourn**

*Be a part of the picture...get involved with your City...Volunteer!
For more information, stop by City Hall or call Carolyn at 651-792-7026 or check our website at
www.cityofroseville.com.*

Volunteering, a Great Way to Get Involved!

**Roseville Public Works, Environment and
Transportation Commission**

Agenda Item

Date: March 26, 2013

Item No: 3

Item Description: Approval of the February 26, 2013 Public Works Commission Minutes

Attached are the minutes from the February 26, 2013 meeting.

Recommended Action:

Motion approving the minutes of February 26, 2013, subject to any necessary corrections or revision.

February 26, 2013 Minutes

Move: _____

Second: _____

Ayes: _____

Nays: _____

Roseville Public Works, Environment and Transportation Commission Meeting Minutes

Tuesday, February 26, 2013, at 6:30 p.m.
City Council Chambers, 2660 Civic Center Drive
Roseville, Minnesota 55113

1 **1. Introduction / Call Roll**

2 Chair Jan Vanderwall called the meeting to order at approximately 6:30 p.m.

3
4 **Members Present:** Chair Jan Vanderwall; and Members Steve Gjerdingen;
5 Joan Felice; and Jim DeBenedet

6
7 **Members Excused:** Member Dwayne Stenlund

8
9 **Staff Present:** Public Works Director Duane Schwartz

10
11 **2. Public Comments**

12 None.

13
14 **3. Approval of January 22, 2013 Meeting Minutes**

15 Member Gjerdingen moved, Member Felice seconded, approval of the January
16 22, 2013, meeting as amended.

17
18 **Corrections:**

19 **Page 2, line 79 (DeBenedet)**

- 20 • Correct to watermain rather than sewer lining

21 **Page 3, line 111 (DeBenedet)**

- 22 • Correct language to indicate pedestrian crossings at an intersection, rather
23 than “roadway”

24 **Page 5, lines 189-193 (DeBenedet/Schwartz)**

- 25 • Delete warranty information, as not applicable to this sanitary sewer lining
26 project

27
28 **Ayes: 4**

29 **Nays: 0**

30 **Motion carried.**

31
32 **4. Communication Items**

Public Works Director Schwartz noted that updates on various construction projects were included in tonight's meeting packet and available on-line at the City's website at www.cityofroseville.com/projects, and as detailed in the staff report dated February 22, 2013.

As a bench handout, ***attached hereto and made a part hereof***, Mr. Schwartz provided an "Executive Summary and Key Points" from a May 10, 2012 City of Minneapolis Dual Sort/Single Sort Collection Study.

Mr. Pratt noted a different vendor and type of sale for this year's compost bin and rain barrel in conjunction with the Recycling Association of MN as noted on the flyer included in packet materials.

Discussion included significant snow/ice events this season with materials used to-date currently at 100% for the season; temporary arrangements made by Xcel Energy along the Rice Street corridor for pedestrian and bicycle traffic on pathways during their construction, with the new pathway intended at the same eight foot (8') width and ADA upgrades to be incorporated by Xcel as applicable.

Mr. Schwartz advised that, as part of that project, Ramsey County would follow-up Xcel Energy's utility work with a complete mill and overlay of that section of Rice Street.

Member Gjerdingen requested staff's review of the materials (e.g. concrete or bituminous) for the pathway, also noting the awkward location for the trail and its maintenance based on multiple business access points.

Chair Vanderwall noted, and Mr. Schwartz provided an update, on the watermain break along McCarron's Boulevard and Rice Street earlier today, anticipating that repairs should be completed by Wednesday morning to facilitate school bus and other traffic. Mr. Schwartz noted that this area and that adjacent was under discussion for possible future main lining.

5. Recycling Discussion

Mr. Schwartz reviewed the intent for tonight's meeting in discussing and drafting community values as part of the upcoming request for proposals (RFP's) for renewal of the City's recycling contract, expiring at year-end 2013.

Recycling Coordinator Tim Pratt

Mr. Pratt reviewed the previously-proposed pilot program for curbside collection of appliances, and the City Council's decision on February 25, 2013, to not pursue this grant opportunity, which would have been paid in full by Ramsey County.

Mr. Pratt reviewed various attachments included over the last few months to facilitate tonight's discussion on the City's recycling program, and provided a summary of some of those studies and other pertinent points, ***attached hereto and made a part hereof***, and including research and trends to-date in the recycling

79 industry. Mr. Pratt defined the often-used terms “MRF” and “MSW” as
80 “materials recovery facility” and Municipal Solid Waste” respectively.

81
82 Councilmember Willmus arrived in the audience at this time, approximately 6:55 p.m.

83
84 Discussion included revenue parity between China and the United States, with
85 China having significantly lower labor costs and impacts on manufacturer market-
86 driven issues; cost of and ownership of carts with potential change from a dual to
87 single-sort systems with no identifiable competitiveness based on provision of
88 and/or amortization of carts; percentage of participation if and where organic
89 collections are offered without significant increases in evidence and not
90 necessarily encouraging a change of vendors by participants based on that factor
91 alone; collection of organics weekly and differing from summer to winter
92 seasons; and market forces and trends of manufacturers for potential future
93 collection of plastic bottles at their point-of-sale.

94
95 Further discussion included examples of residential organics that could be
96 collected (e.g. food scraps; non-recycling papers, such as food boxes with
97 coatings; tissue and paper towels; dryer lint; vacuum cleaner bags); and the need
98 for any ongoing research on future program for soiled diaper collection.

99
100 As the PWETC began consideration of the community values for the next RFP,
101 Chair Vanderwall clarified that this should be an initial discussion, with staff then
102 taking values provided by individual members after tonight’s meeting, and
103 averaged on a spreadsheet for consideration at the next discussion for further
104 refinement.

105 106 Collection Category

107 Discussion included whether having lids on bins provided any influence on
108 participation levels and/or volumes collected; efficiencies of lidded bins on
109 robotically-collected routes; sizes of bins for single-stream collection and impacts
110 to increased collection; potential increased workers compensation rates for
111 vendors in addressing size and weight of bins; and the need for continued
112 education and feedback from haulers on contaminants and in keeping quality
113 control in place.

114
115 Further discussion included ease of communication between vendors and
116 participants to keep quality of collections up; ease of participation for residents;
117 ongoing evaluation of participants and collections to eliminate contamination;
118 single sort versus co-mingling of materials; how to encourage product
119 stewardship by manufacturers; and the need to alert participants to the broader
120 range of materials and their types as the markets become available.

121
122 Member Felice expressed concern with the term “co-mingling” and what was
123 intended in previous value discussions.

Member Gjerdingen expressed concern with how to encourage participation at high-density housing units and commercial businesses.

Mr. Pratt clarified that all multi-family housing units are now included in residential collection; but the business community was not included in the City's programs.

However, Chair Vanderwall noted that the City had recycling at all city-operated facilities; with Mr. Pratt confirming that all indoor facilities had offered recycling, with offering at parks at approximately at 60% availability at this time and still proceeding.

At the request of Chair Vanderwall, Mr. Pratt reviewed the rationale in how and why some plastics were acceptable and not others, based on the chemical make-up and melt temperatures impacting how they could be used (e.g. furniture making), and suggested the next RFP include an expanded plastics collection as bonus points in a value-added portion of the RFP.

Chair Vanderwall suggested that organics as well as more plastics be included under those items for collection.

Mr. Schwartz questioned if the PWETC wanted to consider if collection of organics should be a requirement based on future Ramsey County mandates, or a valued-added option.

Chair Vanderwall suggested a separate cost structure for organics.

Member DeBenedet suggested, since organic collections would soon be mandated, it not be included in evaluation criteria, and once in place another RFP could be developed.

Chair Vanderwall suggested that alternatives be considered for three (3) year and five (5) year contracts; opining that the longer the contract the more advantageous to vendors and their costs and subsequent costs for their proposals for vehicle and equipment amortization.

Further discussion included the illegality per City Code for people scavenging recyclables from collection points, while recognizing the difficulty in observing and enforcing compliance, especially with a higher concentration of aluminum cans at various area athletic events, but violations definitely affecting the City's revenue stream from recyclables. Mr. Pratt noted that the Police Department was aware of the problem.

Regarding Member Gjerdingen's ongoing concerns regarding participation by multi-family complexes in residential recycling opportunities, Mr. Pratt noted that staff provides educational materials to the managers/owners of those buildings;

171 however, not all of them and/or their tenants were conscientious or interested in
172 voluntary or mandatory recycling efforts. At the request of Member Gjerdingen,
173 Mr. Pratt clarified that the annual report was a public document and provided
174 comparisons for collection points and types.

175
176 In clarifying the value-added reward portion, Mr. Pratt advised that this was
177 intended as a “wild card” if a vendor had some unique offering that was an
178 unknown to the City at the time of the RFP but could become an unexpected
179 bonus of a contractor with a particular vendor.

180
181 Member DeBenedet noted his concern that when recyclables are collected, they
182 be recycled; and expressed how upset he would be if he knew the collected
183 materials he put out curbside did not in fact go for recycling, but instead went into
184 general garbage as a landfill; and suggested that the “collection” category include
185 a portion for “materials efficiently recycled,” or similar language, and weighted
186 higher than at ten points.

187
188 Chair Vanderwall noted the intent for individual members to provide any
189 additional content or categories to staff, for further consideration and discussion
190 by the body at a future meeting, along with edits and other suggestions.

191
192 Outreach/Education

193 Discussion included changing the equipment from “fossil fuel” to more options
194 currently available;

195
196 With Member Gjerdingen’s concerns for business participation in recycling, Chair
197 Vanderwall questioned if something needed to be included in RFP values to
198 address that, not as a mandate, but to encourage participation. While not currently
199 mandated by the City Council, Mr. Pratt noted that if businesses chose to
200 participate a system could be determined for billing them accordingly and as
201 applicable.

202
203 Member DeBenedet suggested converting and simplifying scoring, and that
204 frequent education of residents should be emphasized more, such as “contractor
205 shall mail quarterly to participants a summary of what and how much was
206 recycling” in an effort to generate excitement and competitiveness by residents
207 for the recycling program.

208
209 Chair Vanderwall noted the City’s immigrant population who were unfamiliar
210 with the culture, and therefore having the greatest learning curve in how to
211 identify different areas for language-appropriate educational materials, especially
212 in larger multi-family housing through letters, notices and also good, clear
213 signage for their benefit

214
215 Mr. Pratt noted that it was easier to identify non-English speaking families in
216 multi-family buildings, but more difficult in single-family residences. Mr. Pratt

advised that staff had worked with the current vendor and Somali and Karen populations for joint outreach projects with schools and their programs as well as city programs.

Chair Vanderwall opined that education was a vital growth market, since outreach was vitally important in attempts to continue increasing participation and collections. Chair Vanderwall noted some current items that could be collected, but were not due to lack of information/knowledge (e.g. rag stock); with Mr. Pratt advising that staff fielded calls at specific times or seasons for those rag stock (e.g. back-to-school shopping in the fall, downsizing, and from estates).

Environment

Discussion included the four (4) current, city-sponsored events encouraging zero waste efforts and Mr. Pratt's coordination of volunteers for those events; zero waste experience of other haulers whether local or from a broader area, with Mr. Pratt providing several examples of those efforts of which he was aware; coordination efforts of haulers relative to Earth Day activities in the community; and experience of staff over the last six (6) years in knowing what to expect of vendors.

Further discussion included how to encourage faith communities and community organizations interested in zero waste events, and if a vendor would be open to assisting those private organizations, whether non-religious or otherwise; and how to define how and if the City should or could be involved in those efforts for encouraging involvement while retaining separation, perhaps by helping to spread the word about such options.

Mr. Pratt noted the public interest for a food waste reduction workshop held at the most recent Home and Garden Fair.

Additional discussion included further opportunities at city-sponsored events (e.g. Rose Parade, Walk/Run); encouraging other organizations to participate in recycling efforts, not just for the benefit of the community, but for the more global community and sustainability efforts, possibly through provision of a packet of educational/instructional materials.

Discussion ensued regarding "fossil fuels," with the consensus of members being that more concentration and concern for a vendor's carbon footprint versus the type of fuel type should be weighted; concern that vendors may interpret that as providing fewer pick-ups to reduce their carbon footprint; and suggestion by Member DeBenedet that this only be one specification in setting value ratings for vendor selection, as a benefit, but not necessarily essential.

Other potential environmental weights included local vendors versus those servicing a larger geographical area; how far materials were being shipped;

definition of “EPP” as environmentally preferred purchasing to minimize costs at the point of purchase as well as at the end.

Chair Vanderwall suggested providing a copy of tonight’s draft chart for Member Stenlund’s input as well, as he would be unavailable for the March or April meetings due to scheduling conflicts.

Categories from 2010 values and revisions based on this initial discussion:

<u>Collection (60)</u>	
▪ Clean, quiet	10
▪ Impact on street (size/weight of trucks)	15
• Frequency of service	20
▪ Ease of participation	20
▪ Flexibility of co-mingling for resident	15
▪ More materials picked up – plastics	5
▪ Organics	
▪ Materials efficiently recycled (local markets, highest and best use for materials)	10
▪ Highest and best use for material	
▪ Rewards for adding value (innovation)	5
• Multi-family service	
Subtotal = 100	
<u>Outreach (30)</u>	
▪ Voluntary expansion to businesses	
• Effective education of residents – with measurement	40
• Community Involvement	10
• Annual report on what happens to materials	50
• Outreach to non-English speaking communities	
• Outreach using electronic communication venues	
Subtotal = 100	
<u>Environmental Benefits (10)</u>	
▪ Assistance with zero waste events	10
▪ Equipment with reduced carbon footprint	30
▪ Environmentally preferred purchasing (EPP)	30
▪ Local vendor-terminal location	30
Subtotal = 100	

Public Comment

Bob Willmus, appearing as resident, not in his role as a City Councilmember

Mr. Willmus repeated his request from a recent City Council meeting for the PWETC's exploration of regional and national trends for single-sort recycling, including organics, with that exploration among vendors other than Eureka.

Chair Vanderwall responded that, the PWETC's research (included in recent agenda packet materials and available online) indicated a bump in participation in moving to single-sort, as well as indications that more things ended up in the waste stream. However, Chair Vanderwall indicated the need to balance both areas, and suggested the PWETC may end up providing recommendations to the City Council for both a single-sort and dual sort option.

Mr. Willmus suggested that, if larger carts could be provided at multi-family buildings by Eureka, it would be beneficial for all parties; and spoke in support of larger carts. While recognizing fewer materials collected with a multi-stream sort, Mr. Willmus suggested that consideration also be given to demographic issues, referencing senior citizens calling Eureka for walk-up service, opining that it would soon negatively impact Eureka's business significantly; and encouraged the PWETC to contact other vendors for current innovations and sort facility enhancements.

Along those lines, Mr. Schwartz requested other types of information still needed by the PWETC and/or City Council on those particular issues, or other information, follow-up, or research needs for staff to provide before the next PWETC meeting.

Member DeBenedet, from his perspective and in response to Mr. Willmus, requested more current data that already provided on what percentage of non-usable recycling materials being collected; and residuals between a single and dual sort system, since the information from the Roseville pilot project was considerably outdated.

Mr. Pratt clarified that the data from the pilot program was dated 2004-2005.

Whether or not the previous data remained valid in today's market, Member DeBenedet opined that, given Roseville citizen interest in recycling, the best service would be providing for the most quantity pick-up, while proving the materials are recycled and not simply diverted to a landfill.

Chair Vanderwall noted his additional interest in exploring options for larger bins and whether that would serve to increase and keep improving that participation.

Discussion ensued regarding types of private collections bins, and the ease for haulers in picking up materials from those bins purchased privately and dependent on their equipment.

Mr. Schwartz advised that his residence in Little Canada had single stream recycling collection, and he found their household produced three times as much recycling as waste.

Mr. Pratt noted that no current vendors serving the immediate area were currently providing weekly collection for single stream collection at this time.

Kathy Click, 335 Ryan Avenue (by Villa Park)

In moving forward, Ms. Click spoke in support of the community values being developed to guide the process moving forward; and expressed her appreciation to the PWETC for their efforts. While having some involvement with the recycling industry, Ms. Click clarified that she was attending as a private citizen.

Concluding discussion included clarifying the request for staff to send out a clean list of values via spreadsheet, with the 2010 value weighting, along with a blank column for changes.

Chair Vanderwall asked that individual PWETC members get their ranking weights, and any other input, to staff for processing to the entire body within a few days; then allowing the next iteration sufficient lead time for members to add any additional topics or make adjustments; followed-up with a second e-mail provided by staff to members with member response to staff to process those numbers for forwarding to the body for consideration at the next discussion.

Chair Vanderwall thanked Mr. Pratt for his attendance at tonight's meeting and for guiding the PWETC through this community value discussion process.

6. Possible Items for Next Meeting – March 26, 2013

- Felice – transportation issues with light rail, etc. (Felice)
With member consensus, Mr. Schwartz suggested a presentation/discussion by Metro Transit.
- LED street lighting – follow-up discussion
Mr. Schwartz advised that a retrofit plan should be forthcoming with an anticipated budget.
- Recycling Program - continued discussion
- Solar Installations on City Facilities
Mr. Schwartz advised that staff was working preliminarily with a company for consideration of such installations; and advised that staff intended to have a representative from that company available for the March PWETC meeting.
Mr. Schwartz advised that there were rebates available, and that costs and other information should be available for that meeting if available, or possibly deferred until the April meeting.
- Construction Projects - communication updates
Chair Vanderwall asked that Mr. Schwartz provide the 2013 construction calendar to him at I.S.D. 623 as soon as available for bus routes around road closures.

366 • Crosswalks and timing issues (Gjerdingen) follow-up discussion based on last
367 month's presentation by Mr. Spack (e.g. way finding around the regional
368 district).
369 Mr. Schwartz advised that there had been some discussion with the Trails
370 Group through the Parks and Recreation Master Plan process.
371 Member DeBenedet concurred; noting that Ms. Bloom was to provide
372 additional information to him and Member Gjerdingen so they could provide
373 information to the full PWETC body and receive direction for their voting
374 authority at the next meeting of that group in mid-March. Member
375 DeBenedet asked that it be added to the next PWEC agenda.
376

377 7. **Adjourn**

378 Member DeBenedet moved, Member Felice seconded, adjournment of the
379 meeting at approximately 8:35 p.m.
380

381 **Ayes: 4**

382 **Nays: 0**

383 **Motion carried.**

Roseville Public Works, Environment and Transportation Commission

Agenda Item

Date: March 26, 2013

Item No: 4

Item Description: Communication Items

- Projects update-
 - 2013 Sanitary Sewer Lining Project – Work is anticipated to start in spring on approximately 7 miles of sewer.
 - Waterman lining project – The first public meeting will be held with the property owners on March 21, 2013.
 - County Road D Reconstruction – Final plans are on the March 25, 2013 City Council meeting for approval. The project will be out for bids in April.
 - Villa Park Sediment Removal Project – We are anticipating the work to start on this project in May.
 - Xcel Gas Main Replacement Project- Staff anticipates that the work will start on this project in late May.
 - County Road B-2 Pathway Construction- The February 28 public information meeting for this project is was attended by approximately 80 property owners. Staff is reviewing comments and will be working on plans in the coming months.
 - 2013 Pavement Management Mill and Overlay Project- currently out to bid. Bid opening is March 28, 2013.
 - Staff is working on the following projects:
 - Wheeler Avenue Closure
 - Utility Extension at 3040 Hamline Avenue
 - McCarrons Lake Subwatershed Drainage Improvements
- Maintenance Activity
 - Street crews are ready to begin sweeping as soon as the meltdown of snow allows.
 - Frequent snow events have required the use of above normal ice control quantities for the season.

Attachments:

- A. 2013 Clean- up Day Flyer
- B. 2013 Rain Barrel Compost Bin Flyer

Roseville's Clean Up Day



When: Saturday, April 27, 2013 from 8 am - 3 pm

What: Items that can't go in your regular trash - listed below - or extra stuff you want to get rid of
(Sorry no hazardous materials - that site opens in June)

If you have reusable clothes, books, sporting goods or housewares take them to Goodwill, 1627 W. County Rd B. Take reusable mattresses, box springs, furniture and other household items to Bridging, 1633 Terrace Dr. These charities will NOT accept large appliances.

Pickup Load	\$25.00	Minivan/SUV Load	\$12.00
Car Load	\$6.00	Trailer (4'x4'x8')	\$25.00

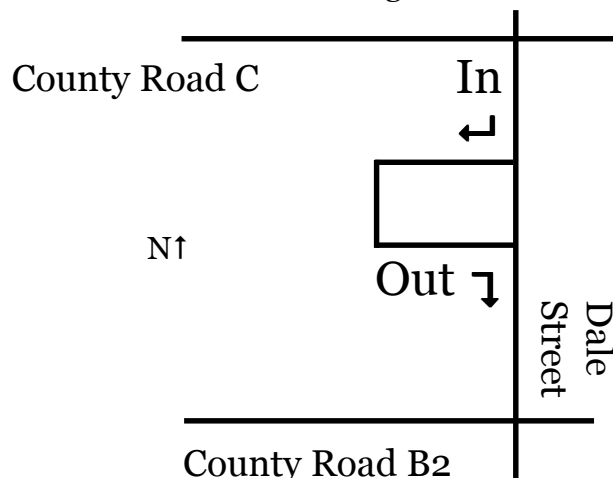
Above prices are for general loads. Prices below are for specific items. If you have a general load and a specific item you will be charged for both. Unusual items such as tractor tires and railroad ties are extra.

Appliance	\$7.00	Appliance w/Freon	\$12.00	Auto Batteries	\$1.00
Couch	\$7.00	Stuffed Chair	\$4.00	Hide-a-beds	\$12.00
Electronics*	\$5.00 (each)	Mattress/Box Spring	\$12.00 (each)	Scrap Metal	\$4.00/yard
Tires	\$1.50	Lawn Mowers/Snow blowers	\$7.00 (each)	Child Car Seat	\$10/each

* Electronics includes computers, monitors, peripherals, TVs, stereos, VCRs, DVD players, etc. Computer hard drives will be erased before being recycled.

Where: The Dale Street Soccer Fields Parking Lot 2555 N. Dale (see map)

Enter from Dale Street heading south



Questions: Call 651-792-7027

For waste reduction and recycling information www.RethinkRecycling.com or call 651-633-3279.

Take a break from cleaning up your corner of the earth and celebrate Earth Day Saturday, April 20 at the Harriet Alexander Nature Center, 2520 Dale Street. To volunteer call 651-765-HANC.

Rain Barrel & Compost Bin SALE!



Compost Bin
Sale \$55
Reg. \$105

Rain Barrel
Sale \$69
Reg. \$139

Order online then pick up your pre-ordered rain barrel & compost bin at the Roseville City Hall on April 20! Visit our website for details!



For more info & to order visit:
RecycleMinnesota.org

Roseville Public Works, Environment and Transportation Commission

Agenda Item

Date: March 26, 2013

Item No: 5

Item Description: Metro Transit Service Discussion

Background:

The Commission asked for a discussion on transit service in Roseville after a District 10 representative from St. Paul attended the January commission meeting asking for support for increased service levels in the areas around Larpenteur Ave. We have invited Scott Thompson, Service Development Manager for Metro Transit to your meeting to discuss this and other service development issues and recent transit changes in Roseville.

Recommended Action:

Discuss transit service issues with Metro Transit.

Attachments:

A. None

Roseville Public Works, Environment and Transportation Commission

Agenda Item

Date: March 26, 2013

Item No: 6

Item Description: Recycling Community Values Discussion Continued

Background:

Staff sent out the revised Community Values chart to commission members after your February meeting. We received two responses from commission members and have included their recommended values and comments in an expanded chart attached to this item. Please review and be prepared to comment and finalize the values chart and scoring/weighting at your meeting. We would also request any additional suggestions prior to the development of an RFP for recycling services. If the Commission would like to invite recycling service providers for a question, comment, and answer session at a future meeting, we can provide for that.

Recommended Action:

Discuss and finalize community values chart and comment on additional information needs.

Attachments:

A. Community Values Chart

Recycling Community Values

	2010 Values	Jan Vanderwall's 2013 Values	Jim DeBenedet's 2013 Values	Jim DeBenedet's Comments
Collection	60		60	
Clean, quiet	10	5	5	This should be a specification requirement
Impact on street (size and weight of trucks)	15	10	15	
Frequency of service	20	15	10	
Ease of participation	20	20	15	Very large carts, ie. 60 gal, are a benefit to haulers, not residents.
Flexibility of Co-mingling for resident	15	15	10	What we have now, three sort, is best, in my opinion.
More materials picked up – plastics	5	15	10	
Organics			10	
Materials are efficiently recycled (local markets, highest and best use for material)	10	10	20	
Rewards for adding value (innovation)	5	5	5	
Multi-family service		5		
subtotal	100	100	100	
Outreach	30		15	
Voluntary expansion to businesses		10	30	
Effective education of residents -with measurement	40	40	30	
Community involvement	10	15		This should be a specification requirement
Annual report on what happens to material	50	15		This should be a specification requirement
Outreach to non-English speaking communities		10	20	
Outreach using electronic communications		10	20	
subtotal	100	100	100	
Environmental Benefits	10	15	25	
Assistance with Zero Waste events	10	30		Tim Pratt says he can do this without help.
Reduced carbon footprint	30	10	40	This is tied to weight of vehicle. Distance to MRF and net effective recycle weight.
Environmentally Preferred Purchasing (EPP)	30	20	10	This was always confusing to me. How do we measure it?
Local vendor-terminal location	30	25	50	this contributes to reduced carbon footprint
subtotal	100	100	100	

City of Roseville 2012 Year-End Recycling Report



Roseville, MN has one of the best recycling programs in the country.

There is currently a dialogue happening on a national level about the future of recycling programs. Cities, counties, states, recyclers and the organizations that create packaging are all talking about ways to reduce packaging, reduce waste and maximize recycling and reuse in the future.

In this conversation, Ramsey County has been held up as a model nationally for counties that are doing well and Roseville is one of the strongest programs in Ramsey County.

In the many conversations we have had with Roseville residents we hear over and over how people in Roseville strive to leave their city in a better place for their children. The recycling program in Roseville reduces waste and improves the economy and that is a great legacy for the next generations of Roseville residents.

The program is convenient, reliable and transparent. Residents receive a good deal of information about their recycling program. They know all of the materials that are recyclable and they know why the items that are not collected cannot be recycled. Residents can find out what happens to their material and what it gets made into. They even receive information which profiles the different local and regional manufacturing companies that receive Roseville's material and make it into new products. Weekly collection also makes the program convenient by saving residents the trouble of trying to remember which week is their pick-up week.

Another place Roseville demonstrates leadership in recycling and waste reduction is at the many city-sponsored events such as The Run for the Roses, The Wild Rice Festival and Earth Day. Large events in other cities generally mean a giant pile of waste from the disposable cups and plates and other material generally used at events. In Roseville these gatherings are done as zero-waste events. It takes time and thoughtful planning to ensure that all of the material generated at these events is either compostable or recyclable. The results are that events drawing hundreds of Roseville residents end up generating only a few pounds (and often only a few ounces!) of waste. Roseville has been a leader in zero-waste events in the entire state and has been recognized by other communities for their leadership.

For eight years the City of Roseville and Eureka Recycling have partnered to design and manage a zero-waste recycling program.

Zero-waste recycling is an approach to recycling that always carefully considers people, cost, and the environment. The goal is to ensure the most sustainable use of the natural resources we rely on for the products and packaging we need.

- It looks at the impacts these products and packaging have on the people who use, transport, sort and manufacture these goods into new products.

(651) 222-SORT (7678)

www.eurekarecycling.org

Our mission is to reduce waste today through innovative resource management and to reach a waste-free tomorrow by demonstrating that waste is preventable, not inevitable.

An affirmative action, equal opportunity employer.

♻️ Printed on 100% postconsumer recycled paper that was processed without the use of chlorine.

- It examines the environmental impact of all of this work and searches for ways to maximize the environmental benefit of recycling by using local or regional markets over exports. It assures that as much material as possible is recycled to its highest and best use, and if possible that material can be recycled again and again.
- It accounts for the value of the material. Specifically in Roseville revenues are shared back to the community to help keep the costs of the program low and to support other zero waste initiatives.

Most recycling programs are not built on zero waste values. They are designed and managed to maximize the profit margins on hauling, sorting and selling material for the hauler.

Through their zero-waste recycling program, Roseville has had the unique opportunity to go far beyond traditional recycling to include other approaches to waste reduction as well.

In 2012, over 1,000 Roseville residents used the Twin Cities Free Market to prevent items from becoming waste through person-to-person exchanges. **That effort prevented over 10,000 pounds of waste** and made sure that durable goods like furniture and appliances were used for their entire lifecycle before they ended up in the waste stream. This form of prevention is also an effective way to reduce the amount of bulky items that need to be handled by cities.

Roseville residents also reduce their waste by composting kitchen scraps and yard waste right in their backyard. Eureka Recycling teaches backyard composting workshops that are hosted by the City where residents can learn another way to reduce waste and make healthy soil. At the workshops residents obtain compost bins, learn about how to be a successful composter and join up with other neighbors who are composting at home.

This year, Eureka Recycling spoke with over 480 Roseville residents on our zero-waste hotline. Residents call into our hotline with questions about waste reduction, how to properly dispose of or reuse items, or to find out what happened to the material they set out for recycling.

The efforts of this zero-waste recycling program result in the highest benefit for the environment and the community year after year and 2012 was no exception. Eureka Recycling and the City and residents of Roseville accomplish this together by providing a constant and full analysis of recycling that takes into account not only the costs, but the environmental benefits and impacts, and the impact on and convenience for our community. It is up to all of us as residents and community members to continue to create systems that respect, preserve and protect the rapidly depleting resources that our lives depend on.

Specific Data About Roseville's Successful Zero-Waste Recycling Program in 2012

The City of Roseville's recycling program is exceptional because it uses this zero-waste approach. Here are some examples of the benefits that the City of Roseville has ensured on behalf of its residents.

Tons of Material Recycled in Roseville

The number of tons of material set out for recycling by residents has decreased slightly this year. This is a trend that is consistent with many other cities in the state. It corresponds with a decrease in trash set outs as well. People have changed their purchasing habits. Less newspaper subscriptions and fewer large purchases makes for less material available for recycling. The addition of materials like textiles, milk cartons and juice boxes as well as pizza boxes in 2011 has been an important effort that continues to have the amount of material recycled in Roseville buck the trend toward stagnation or decrease seen in other cities.

Route	2006 Total Tons	2007 Total Tons	2008 Total Tons	2009 Total Tons	2010 Total Tons	2011 Total Tons	2012 Total Tons
Monday	852	893	832	740	758	743	729
Tuesday	464	500	467	420	436	436	414
Wednesday	454	457	461	420	435	421	399
Thursday	706	736	719	669	673	656	640
Friday	482	507	465	426	440	422	421
Curbside Total	2,958	3,094	2,994	2,675	2,742	2,678	2,603
Multifamily Total	483	587	612	606	580	566	570
Roseville Total	3,441	3,681	3,556	3,281	3,322	3,244	3,173

Annual Composition of Roseville's Material

Newest Additions Continue to Improve – The Word is Out

For the third year in a row, the amount of milk cartons and juice boxes (known in the industry as aseptic like Tetra-Pak and gable top containers) collected in Roseville's program has increased this year, and it was a big jump. This is exciting because it means that the education about this relatively new material has been absorbed and residents are increasingly aware of the option to recycle this type of material. This achievement is the result of sustained educational efforts by Eureka Recycling and the City working in partnership.

Roseville Has a Very Low Residual Rate.

Residual refers to the amount of material collected from residents that is not actually recyclable. In 2012, the City of Roseville had a remarkable 0.47% residual rate, meaning that over 99.5% of all the material collected in Roseville was recycled into new products. The fact that Roseville's residual rate remains one of the lowest residual rates in the state of Minnesota is truly astounding and something to be very proud of!

Engaging with residents through education, including the Guide to Recycling, educational tags and postcards, continues to lead to a lower residual rate. This outreach and education also creates buy-in to the program inspiring people to support their zero-waste recycling program. Regular communications and household-specific education efforts make it easy for Roseville residents to stay informed and be clear about what is and is not recyclable in their city.

Type of Material	2006 % of Total Tonnage	2007 % of Total Tonnage	2008 % of Total Tonnage	2009 % of Total Tonnage	2010 % of Total Tonnage	2011 % of Total Tonnage	2012 % of Total Tonnage
Total Annual Tons	3,441	3,681	3,556	3,281	3,322	3,244	3,173
Papers							
News Mix	63.98%	56.46%	66.00%	61.65%	59.68%	51.53%	56.86%
Cardboard	6.71%	13.23%	4.50%	5.48%	7.34%	10.33%	9.09%
Boxboard	2.37%	7.60%	2.60%	5.48%	3.79%	7.04%	5.81%
Wet Strength	0.36%	0.10%	0.50%	0.00%	1.77%	0.46%	0.50%
Phone Books	1.33%	0.11%	0.10%	0.02%	0.12%	0.14%	0.28%
Milk Cartons & Juice Boxes	Not collected	Negligible	Negligible	Negligible	0.02%	0.03%	0.47%
Textiles	0.40%	Negligible	Negligible	0.02%	0.02%	Negligible	0.20%
Residual	0.24%	0.11%	.5%	0.06%	0.07%	0.27%	0.19%
TOTAL	75.40%	76.60%	74.20%	72.72%	72.81%	69.79%	73.40%
Containers							
Total Glass	14.89%	15.15%	16.70%	17.54%	17.31%	18.08%	16.94%
Steel Cans	2.64%	2.00%	2.40%	2.43%	2.65%	2.49%	2.38%
Aluminum	1.48%	1.10%	1.40%	1.40%	1.43%	2.10%	1.37%
Total Plastics	4.70%	4.01%	4.60%	5.75%	5.67%	6.94%	5.63%
Residual	0.89%	0.15%	0.70%	0.17%	0.12%	0.60%	0.28%
TOTAL	24.60%	22.40%	25.80%	27.28%	27.19%	30.21%	26.60%
Total Residual	1.13%	0.26%	1.2%	0.23%	0.19%	0.91%	0.47%

For more information on the methodology of the composition analysis done by Eureka Recycling, please see Appendix B.

Annual Participation and Set-Out Rate Studies

Roseville is one of the few cities in the metropolitan area in which the actual city-specific participation trend information is available. Roseville continues to maintain one of the highest participation levels in the country! This shows that the recycling in Roseville is easy and that residents get consistent feedback on what is happening in their program.

Each year in the same areas of the city, Eureka Recycling counts set-out rates on each collection day for four straight weeks. This study yields information on how many residents set out material in any given week as well as the total percentage of residents that take part in the program.

This information gives city staff and Eureka Recycling the ability to target efforts and messages to the areas that need it the most. This not only saves in the cost of sending unnecessary mailings, it provides the opportunity to examine the specific areas that need improvement and find ways to reduce the barriers to participation in a more targeted and catered way.

	2006	2007	2008	2009	2010	2011	2012
Set Out Rate	60%	50%	58%	53%	50%	53%	57%
Participation Rate	74%	75%	82%	78%	76%	75%	80%

Eureka Recycling conducted the annual participation and set-out rate trend study in the fall of each year. (See Appendix C for the definitions and methodologies of the participation and set-out rate studies.)

Multifamily Building Recycling

The City of Roseville plays a leading role in establishing successful recycling programs for **all** of its residents. This is demonstrated by the 100% participation rate of its multifamily recycling program. Very few cities in Minnesota (and even in the entire country) have made the commitments necessary to assure that residents who live in apartments buildings, condos and townhouses have the same opportunity to recycle and reduce waste as their neighbors in single family homes. That represents over 6,400 households of people in Roseville who, if they lived in another city, may not even have recycling at their building. Here they not only have it as a token program, but it is successful because of a serious investment.

Recycling at each property is managed differently, making sure the needs of individual property managers and residents can be met to maximize their waste reduction efforts and assure success at each building. We provide recycling information in multiple languages and work with property managers to organize resident meetings to answer people's questions and show them how to recycle at their building.

In an annual letter to each property manager, Eureka Recycling shares each building's total amount of recycling from the previous year to acknowledge their commitment to the recycling program. Sharing this information with the property managers, who share it with their residents, creates a level of transparency. This is an important element of a zero-waste recycling program and inspires individuals about the impact they make by recycling at their building.

Revenue from the Sale of Recyclables

The monetary value created by the set-out, collection, processing and sale of recyclable material in Roseville is shared back with the residents who protected that material from being trashed. A

zero-waste recycling program that includes revenue share recognizes the value of these materials and how that value can be used to support other recycling and waste reduction initiatives.

Since 2006, the City of Roseville has received more than \$730,000 in revenue from the sale of its recyclables to continue to invest in the city's recycling program or other environmental programs.

This revenue gives the city the resources to continue to support the zero-waste recycling program, zero-waste services at events, the citywide clean-up program, backyard composting and other additional engagement and education opportunities. In most programs this would not be possible as recycling collectors tend to keep all of the revenue themselves.

This year saw very depressed prices specifically in the fiber markets (fibers = newspaper and cardboard and other paper products). While other commodities like plastic and aluminum were strong, fibers constitute a large portion of what is in any city's recycling. In Roseville, fibers make up just over 70%. So, even strong pricing in non-fiber markets is not generally enough to offset lower prices for paper. While the revenue share in Roseville in 2012 was lower than the records of 2011 it was also nowhere near as low as the years in the depths of the recent recession (2009 in particular).

This is important revenue for the City's waste reduction efforts and keeping the cost of recycling low for residents.

Revenue From the Sale of Roseville's Recyclables

	2006 Rev	2007 Rev	2008 Rev	2009 Rev	2010 Rev	2011 Rev	2012 Rev
1st Qtr	\$21,165.32	\$22,749.81	\$33,159.16	\$859.83	\$21,111.03	\$38,554.41	\$28,147.55
2nd Qtr	\$23,403.59	\$27,992.48	\$39,090.85	\$4,810.17	\$28,141.61	\$50,099.29	\$28,580.68
3rd Qtr	\$19,483.86	\$30,002.00	\$47,928.25	\$8,587.23	\$23,044.87	\$47,235.78	\$16,163.19
4th Qtr	\$22,661.14	\$34,551.08	\$14,170.61	\$15,946.38	\$32,448.84	\$36,455.29	\$14,043.27
Total	\$86,713.91	\$115,295.37	\$134,348.87	\$30,203.61	\$104,746.35	\$172,344.77	\$86,934.69

The materials that Roseville residents set out each week are valuable. They required tons of natural resources, a great deal of energy, and hours of labor to produce. Much of that value still remains in the items after they are used. Recycling captures that value and renews it. The market for material generates billions of dollars each year in the United States alone and is highly sought after by manufacturers who want to make new products out of it.

The Environmental Benefits of Roseville's Zero-Waste Recycling Program

The environmental benefits of Roseville's zero-waste recycling program are quantified transparently using widely-accepted environmental models. This assures that all residents have a chance to see how their efforts and the impact of those efforts can be measured.

There are many ways to calculate the benefits of recycling. To better explain these benefits in commonly understood terms, government agencies, research scientists and economists have created several “calculators” to translate the amounts of recycled materials collected and processed into equivalent positive societal and environmental benefits.

Most recently, it has become imperative to measure waste reduction (and all of our activities) in terms of its impact on climate change. This allows us to speak in a common language, understand the impact of our choices and help us prioritize the personal and policy actions that we take. Many cities around the country work with the International Council for Local Environmental Initiatives (ICLEI) to quantify and now register the climate change impacts of their city. It is also important to calculate the carbon impact of waste reduction as the global effort continues to enact a carbon "cap and trade" system.

In addition to climate change mitigation, there are other environmental benefits to recycling, including saving energy and protecting air quality, water quality, natural resources, natural beauty, habitat and human health.

The Environmental Protection Agency (EPA) WARM Calculator

The equations used in environmental calculations try to take into account the “full life cycle” of each material—everything from off-setting the demand for more virgin materials (tree harvesting, mining, etc.) to preventing the pollution that would have occurred if that material were disposed of (burned or buried). Different calculators may include some or all of the many factors that contribute to the “full life cycle” so results will vary from calculator to calculator.

While there are many models emerging to calculate greenhouse gas reductions, the most recognized and standard model is the U.S. Environmental Protection Agency’s Waste Reduction Model (WARM). WARM was designed to help solid waste planners and organizations track and voluntarily report greenhouse gas emissions reductions from several different waste management practices. WARM, last updated in February 2012, recognizes 46 material types.

	Total Recycling	Carbon Equivalent Reduction	Carbon Dioxide Equivalent Reduction
2006	3,441 tons	2,328 metric tons (MTCE★)	8,537 metric tons (MTCO ₂ E)
2007	3,682 tons	2,460 metric tons (MTCE★)	9,018 metric tons (MTCO ₂ E)
2008	3,556 tons	2,383 metric tons (MTCE★)	8,736 metric tons (MTCO ₂ E)
2009	3,281 tons	2,206 metric tons (MTCE★)	8,090 metric tons (MTCO ₂ E)
2010	3,322 tons	2,303 metric tons (MTCE★)	8,443 metric tons (MTCO ₂ E)
2011	3,244 tons	2,190 metric tons (MTCE★)	8,030 metric tons (MTCO ₂ E)
2012	3,173 tons	2,090 metric tons (MTCE★)	7,663 metric tons (MTCO ₂ E)

★MTCE (Metric tons of carbon equivalent) and MTCO₂E (Metric tons of carbon dioxide emissions) are figures commonly used when discussing greenhouse gas emissions.

What do all these numbers mean?

The numbers above help municipalities calculate and track their environmental footprint. For more information about the process of measuring the environmental benefits of waste reduction, visit <http://epa.gov/climatechange/wycd/waste/measureghg.html#click>.

These numbers, however, don't have much meaning to the average person. To help recyclers understand the significance of their actions, the EPA has also developed tools to translate these numbers into equivalent examples that people can more easily understand.

- For example, using the figures above, the EPA estimates that **Roseville would have had to remove 1,503 cars from the road for one year to have had the same environmental impact in 2011 as they did by recycling.** To achieve this, approximately 10% of Roseville's households would have had to give up one car for a year.
- Another example of how these efforts can be translated into energy savings can be found in the EPA calculator. It shows that the energy savings gained by the recycling efforts of Roseville's residents in 2011 could power 385 homes for one year (over 2.5% of households).

Although WARM is the most widely peer-reviewed and accepted model, it is considered to have several flaws. Many believe the use of this calculator is conservative and understates the real impact of waste reduction efforts, but it offers a conservative starting place to measure our impacts and work towards our goals. Even with these conservative calculations, the impacts of Roseville's recycling program prove to be quite significant.

(http://epa.gov/climatechange/wycd/waste/calculators/Warm_Form.html)

Jeffrey Morris Calculator

Jeffrey Morris, Ph.D., Economist at Sound Resource Management in Seattle, has developed a calculator that begins with the EPA's WARM calculator and expands upon it to gather information on not just carbon and CO₂, but also several other important environmental and human health indicators. Although not yet widely used, this calculator shows the significant benefits that WARM does not consider.

	2006	2007	2008	2009	2010	2011	2012
Total Recycling	3,441 tons	3,682 tons	3,556 tons	3,281 tons	3,322 tons	3,243 tons	3,173 tons
Carbon Dioxide Equivalent Reduction (MTCO ₂ E)	9,437.3 metric tons	9,619.0 metric tons	9,683.5 metric tons	8,814.0 metric tons	8,739.3 metric tons	8,425.1 metric tons	8,106.2 metric tons
Human Health— Non-Carcinogen Toxins Reduction	4,609.7 tons	5,253.0 tons	4,665.7 tons	4,452.0 tons	4,518.0 tons	4,699.6 tons	4,375.0 tons
Human Health— Acidification (SO ₂) Reduction	26.9 tons	27.0 tons	27.3 tons	25.3 tons	25.5 tons	27.1 tons	24.3 tons
Human Health— Particulates Reduction	4.4 metric tons	6.6 metric tons	4.2 metric tons	4.4 metric tons	4.8 metric tons	5.9 metric tons	5.1 metric tons
Human Health— Carcinogens Reduction	1.9 metric tons	1.9 metric tons	1.9 metric tons	1.9 metric tons	1.9 metric tons	2.0 metric tons	1.8 metric tons

For more information about the process of measuring the environmental benefits of waste reduction, visit <http://epa.gov/climatechange/wycd/waste/measureghg.html#click>

The Morris model expands and shows the benefits other than just energy savings and carbon savings. Recycling materials with zero waste in mind recognizes not just the value in the resource itself, but the contribution to the health of the community when materials are kept out of landfills and incinerators, avoiding the toxic and carcinogenic emissions.

About Eureka Recycling

Eureka Recycling is the only organization in Minnesota that specializes in zero waste. The organization's services, programs, and policy work present solutions to the social, environmental, and health problems caused by wasting. A 501(c)(3) nonprofit organization, based in the Twin Cities of Saint Paul and Minneapolis, Eureka Recycling's mission is to demonstrate that waste is preventable, not inevitable. Because this mission is realized by any person or group that chooses to prevent waste, Eureka Recycling provides opportunities for everyone to experience firsthand that waste can be prevented.

Perhaps most well-known for its \$9 million annual recycling operations, Eureka Recycling has provided curbside and apartment recycling services, education, and advocacy since 2001. Eureka Recycling has a wide range of initiatives designed to prevent the needless wasting of our discards through reuse, recycling, composting, waste reduction, producer responsibility and more. These

initiatives provide over 100 jobs for individuals who demonstrate their mission every day in the work that they do.

Examples of Eureka Recycling's work include:

- The Twin Cities Free Market, an internet program that lengthens the life of durable goods by connecting community members who have and can use them.
- The Recycled Paper Co-op, which offers residents and businesses quality recycled paper at competitive costs.
- Zero-waste event services from small meetings and block parties to large events like the Minnesota State Fair.
- Composting and zero-waste services for restaurants, farmers markets, grocery stores and many others.
- The most environmentally sustainable method of managing food waste:
 - Tools, advice and workshops to help people prevent wasting food by helping them with shopping, storage and cooking habits.
 - Back-yard and worm composting workshops that reach hundreds of people each year.

Eureka Recycling also examines how waste can be prevented before we turn to recycling and composting and calls for accountability from the producers of packaging and products to better design their goods.

By its efforts in programs, services and advocacy, Eureka Recycling aspires to help individuals, organizations and communities understand the significance of zero waste and to achieve their own zero-waste goals.

City of Roseville

Outreach and Education Summary 2012

Roseville's recycling program continues to be a leader in the country. Outreach and education elements of the program are an important part to ensuring good participation and help residents understand the benefits of recycling. In 2012, Eureka Recycling and the City of Roseville continued to support the efforts of the city of Roseville to make city events zero-waste. This was the third year we distributed recycling bins and educational material at Night to Unite parties. The Living Smarter Fair, Wild Rice Festival, and Earth Day celebration were also successful events—bringing Roseville residents' attention to zero-waste issues while diverting nearly 400 pounds of discards from the waste stream. That means that over 94% of the material discarded at these events was either recycled into new products or composted and turned into soil. These successes continue to show the City of Roseville's leadership in its commitment to zero waste and sustainability.

Roseville residents continue to participate in their zero-waste recycling program at rates that are among the highest in the state. In 2012, we continued to educate residents about the curbside zero-waste recycling program and the benefits of reducing waste, recognizing that there is more to waste reduction than just recycling and how easy it is to participate.

Zero-Waste Hotline

In 2012, Eureka Recycling's hotline staff had 415 conversations with Roseville residents who live in single-family homes (or duplexes) about their zero-waste recycling program.

Hotline staff also answered 72 calls from apartment and townhouse residents and building managers who participate in the zero-waste recycling program and had questions unique to their program. Eureka Recycling worked with these residents and building staff to help them manage their multi-family recycling set-ups, add carts or collection days, provide them with education materials for their residents, and help improve their service in many other ways.

	2007	2008	2009	2010	2011	2012
Hotline Calls						
Curbside Calls	425	540	480	410	330	415
Multi-family Calls	49	78	35	74	81	72
Total Calls	474	618	515	484	411	487
Requests for Printed Materials						
Curbside	41	74	21	43	47	33

Requests for Printed Education Materials

Throughout the year, Eureka Recycling mailed specific curbside recycling schedules, sorting information, and clothes and linens stickers to 33 Roseville residents in response to their questions and calls.

Curbside Program

Guide to Recycling

All Roseville residents in the zero-waste recycling program received the 2012 Guide to Recycling through direct mail. In addition to the basic instructions for how recycling should be set out and the materials collected, the 2012 Guide to Recycling focused on the big issues with plastics. This focus of the Guide was an effort to help residents understand some of the issues around recycling plastics and an invitation for residents to participate in a questionnaire about their values regarding plastics. Many residents appreciated this additional information and chose to call the Zero-Waste Hotline to learn more.



Direct Education

Eureka Recycling and the City of Roseville share a value that all the material that can be recycled should be and that material that cannot be recycled should not be collected. Taking non-recyclable items on a ride in a recycling truck and through a processing facility not only wastes the fuel and energy to transport and process the material, it also leaves the residents with the mistaken impression that the material can be recycled when in fact it cannot.

Eureka Recycling drivers educate residents at the curb using educational tags for specific problems. In 2012, drivers left approximately 9,736 educational tags in recyclers' bins.

	2006	2007	2008	2009	2010	2011	2012
Driver Tags	9,540	10,156	7,367	13,565	13,010	50,061	9,736
Postcards	650	822	451	742	559	1,136	951
Personalized Letters	30	51	0	3	10	41	179

Our experience has shown that the absolute best place to educate residents about their zero-waste recycling program is right at the curb. We work with our drivers to ensure they take advantage of every opportunity to provide additional education. This is efficient because drivers can educate the residents that are confused and it also begins a conversation with the residents. All of Eureka Recycling's tags encourage residents to call our hotline where zero-waste educators are waiting to clear up confusion about why certain items are not recyclable or to explain how residents' efforts at the curb can have such an important impact on the value of the material and the environmental benefits of recycling.



Sample Tags

Postcards and Letters

When there are no bins available in which to leave a tag, drivers report any issues on a separate form, and we send educational postcards in order to communicate with these recyclers directly. These are similar to the tags and encourage residents to give us a call with questions.

It was a great year for our education team; drivers were diligent in their educational tagging and Eureka Recycling staff made sure residents received all the extra education they needed to successfully participate in the program. Drivers and hotline staff worked together to send out 951 educational postcards in 2012.

As in previous years, the most common issues for residents that required direct education were confusion about plastics (what types of plastic are recyclable) and proper sorting.

Personalized letters are another form of communication about programs and services Eureka Recycling provides. There are four types of personalized letters sent to residents:

1. Chronic problem letters provide detailed information and instructions about setting out recycling. These letters are used when the usual tags and postcards have not been successful in correcting repeated problems. Drivers keep a daily record of the addresses that have received tags but still need further education. Addresses that have received tags or postcards for three consecutive weeks with no change in how they are recycling receive a personalized letter that encourages the resident to contact us so we can have a more in-depth conversation.
2. Letters about containers that are too large for our drivers to service. Ensuring our drivers can safely lift a recycling container is important for the health of our drivers and is valuable because safety is important. When drivers pick up over 1000 stops every day, even one container that is large enough to prevent them from using safe lifting techniques can cause issues. Letters were sent to residents to notify them that they could not use their large container and included information about where to get the blue recycling bins that are provided free of charge by the city.
3. Letters to update service information for Special Pickup Instruction (SPI) customers. These letters are sent when SPI residents have changed the location of their recycling, or if it appears the resident has moved out of the home and no longer needs the service.
4. Letters to address service issues that are filed by residents or issues that are reported by drivers. These letters help residents better understand the program and are a more personal way to have detailed conversations with them about issues that may be confusing.

In 2012, Eureka Recycling sent 179 personalized letters to residents. This large increase comes because of the large number of safety issues we were having with large containers in Roseville. We worked with many residents to help them use bins that are safer for our drivers to lift. Additionally, we sent more chronic problem letters this year in an effort to reach out to those who don't quite understand the program. Sending these letters has allowed us to start solving issues more quickly and efficiently.

Special Pickup Addresses

To ensure that every resident has the opportunity to recycle, Eureka Recycling offers to collect recycling from locations other than the curb for residents who request special pickup service due

to short- or long-term physical limitations. This service is provided free of charge to ensure that anyone who would like to recycle has the opportunity to do so by helping to remove any physical barriers residents may have. At the end of 2012, the service was extended to 101 Roseville residents. Of those 101 Roseville residents that requested special pickup service, 17 of those were added in 2012.

Multifamily Zero-Waste Recycling Program

The City of Roseville has a very organized multifamily zero-waste recycling program. In 2012 Eureka Recycling added recycling services for one building: Cherrywood Pointe. We now have a total of 176 multifamily complexes, 164 residential buildings, and 11 city buildings/parks, 1 business and 1 nonprofit for a total of 6,049 units being serviced in Roseville's multifamily program.



In February 2012, Eureka Recycling mailed reports to all of Roseville's multifamily building managers, providing them with data on the tonnage recycled for their building(s), a comparison of the amount of tonnage recycled for the whole city's multifamily program, and the environmental benefits of the entire city's effort in recycling. This communication provides the building managers with a concrete tool to work with their residents to get them inspired and motivated to increase their recycling rate. Eureka Recycling's staff also updated building managers' contact information whenever possible. This has a significant impact on staying connected with buildings and the residents. If it were not for the diligent work of Eureka Recycling staff to ensure correct and updated data, effective and timely communication, like the tonnage summaries for buildings, would not be possible.

Multifamily Educational Materials and Customer Service

Eureka Recycling continues to monitor the performance at each account on an ongoing basis in order to improve participation. Our drivers track issues and Eureka Recycling staff are able to follow up immediately to offer suggestions that address the specific needs of the building and to provide educational materials for residents. Eureka Recycling provided 824 pieces of recycling education (instructional posters, brochures, schedules, etc.) to the building management and residents of the newly established and existing multifamily accounts in 2012.

Eureka Recycling continues to monitor the performance and service issues at each account in order to adjust service levels on an ongoing basis. We ensure that we are providing adequate service levels to all buildings by working with our attentive drivers and involved on-site contacts to add more carts as residents recycle more.

This year we tracked outgoing Multifamily calls to property managers to work with them to coordinate issues such as trash or blocked carts, on call pickups, and outreach such as updating contact information and coordinating outreach efforts. This year we contacted managers and caretakers at 24 multifamily properties to work more closely with them to engage and educate their residents.

Special Education and Outreach

Outreach at Roseville Events

In 2012, Eureka Recycling and the City of Roseville partnered once again to give Roseville residents an opportunity to learn about recycling and to experience that waste is preventable at three events this year. Eureka Recycling provided Zero-Waste Event Services, including sending staff to help monitor the zero-waste stations and educated residents about recycling and zero-waste issues at these events.

At the Roseville Living Smarter Fair on February 18, 2012, we were able to have several conversations about backyard and worm composting. Living Smarter participants had many great questions regarding what types of materials can be placed in backyard compost bins. Our display compost bin also drew a lot of people in who were interested in getting started with backyard composting, giving us an excellent opportunity to show Roseville residents how easy it is! People were also interested in the Twin Cities Free Market and were glad to hear they have this option available when they need to get rid of their usable items. Eureka also offered a worm composting and preventing wasted food workshop at the Fair. The workshop was very well received and about 20 people attended.

On April 21, 2012, at the Roseville Earth Day event, Eureka Recycling and the city had a table of information about recycling, backyard composting, and Eureka Recycling's other zero-waste programs. We engaged with people attending the event with information about composting and the kids played the bean bag recycling game. Residents also came to us with many questions about plastics recycling, and we distributed recycling bins and other information about the recycling program.

Roseville Residents Experience Zero Waste For Themselves!

This year Eureka Recycling's continued sponsorship of zero-waste events in Roseville provided residents with the opportunity to have a personal experience seeing zero waste in action. Eureka Recycling supported making all of the following events zero-waste:

- The Living Smarter Fair (96%)
- The Earth Day Celebration at Harriet Alexander Nature Center (94%)
- The Wild Rice Festival (96%)

The percentage listed after each event above represents the total percentage of items discarded by event attendees that was either recycled into new products or composted into nutrient-rich soil. Public events tend to be huge waste generators. Roseville's efforts to address this problem, and the 94-96% diversion of waste from these public events, continues to show the city's incredible leadership. Eureka Recycling receives consistent requests from other cities to help them develop the knowledge and build the commitment to waste reduction that would make them as successful as Roseville.

Night to Unite

In 2012, we again joined the City of Roseville in their Night to Unite celebration. Together, we recognized it as an opportunity to connect with Roseville residents on a night where the community gathers. The city and Eureka Recycling see this event as a great opportunity to bring resources to residents as well as take the time to build community and answer questions. With a

full truck of recycling bins, Roseville city staff and Eureka Recycling staff headed out to at least 15 neighborhood gatherings and distributed approximately 90 recycling bins to residents who didn't have one, or needed an extra one to help them recycle more. Staff spent time at these events answering recycling questions and talking to residents about the environmental and economic benefits of recycling. Residents were very excited not only to get recycling information and more recycling bins, but also to have conversations about other zero-waste topics, such as ways to influence producers to make more sustainable products and packaging.

We also distributed 2012 Guides to Recycling and brochures with information about the Twin Cities Free Market to anyone interested.

Leading up to this event, we once again supported the city's effort to encourage block party organizers to register their parties with the city by offering a free backyard composting bin to any registered neighborhood party that wanted one. A total of 18 compost bins were given to leaders of Roseville block parties. Registering parties helps the city to retain the information about who the energized and engaged residents are and develop stronger relationships with those residents to get community feedback and to help disseminate information on important community initiatives to neighbors through these highly engaged residents. Several parties raffled the bins off to party attendees, while others used them to compost the food scraps from the party. We also offered a fact sheet about making neighborhood events zero-waste. This fact sheet is available on our composting website:

http://www.makedirtnotwaste.org/pdf/Your_zero_waste_neighborhood_event.pdf.

Twin Cities Free Market

Through Ramsey County funding, residents of the City of Roseville have the opportunity to exchange reusable materials via the Twin Cities Free Market (www.twincitiesfreemarket.org). As mentioned in the 2012 year-end report, the Twin Cities Free Market is a great way for residents to give and get free, reusable items while keeping them out of the landfill or incinerator. Just over five tons (10,055 pounds) of usable items, mostly furniture, electronics, and appliances, were spared from the landfill or incinerator by Roseville residents in 2012 because they had the Twin Cities Free Market as an alternative to disposing of these items!

Appendix A

Roseville Multi-Family Tonnage by Property - 2012

Property Name	Primary Address	# Units	2006 Total lbs.	2007 Total lbs.	2008 Total lbs.	2009 Total lbs.	2010 Total lbs.	2011 Total lbs.	2012 Total lbs.
1144 Dionne Street	Dionne Street, 1144	23	7,150	8,457	5,961	5,167	6,906	5,892	5,539
1363 County Road B	County Road B, 1363	11	1,892	1,910	2,744	2,629	2,255	2,090	2,426
161 McCarrons Street	McCarrons Street, 161	11	439	198	-	-	-	-	-
161 Minnesota Avenue	Minnesota Avenue, 161	6	148	678	423	646	1,076	1,264	1,258
1610 County Road B	County Road B, 1610	11	2,266	2,324	1,967	2,396	2,079	1,858	1,827
1614 Eldridge Avenue	Eldridge Avenue, 1614	11	1,424	1,280	2,651	4,237	3,583	3,858	3,230
1615 Eldridge Avenue	Eldridge Avenue, 1615	11	1,809	1,091	1,721	2,076	1,922	1,678	1,479
1624 Eldridge Avenue	Eldridge Avenue, 1624	11	2,541	2,029	1,996	2,629	2,249	1,842	4,753
1629-1635 Skillman Avenue	Skillman Avenue, 1629-1635	14	2,505	3,002	2,951	2,686	2,151	1,981	2,897
1635 Eldridge Avenue	Eldridge Avenue, 1635	11	3,284	1,702	1,650	2,333	2,380	2,026	1,881
1705 Marion Street	Marion Street, 1705	0	1,437	1,578	224	291	1,370	840	587
1750 Marion Street~	Marion Street, 1750	24	3,511	3,576	4,317	3,906	3,386	2,741	1,617
2125 Pascal	Pascal Street, 2125-2133	22	2,514	3,184	5,239	4,717	4,829	5,007	5,093
2180 Haddington Road	Haddington Road, 2180	5	964	1,285	737	1,690	1,484	1,214	1,749
2275 Rice Street ^	Rice Street, 2275	8	1,924	2,830	2,852	2,973	869	-	-
2447 County Road B	County Road B, 2447	17	2,584	2,867	3,143	2,519	2,567	2,572	2,642
2610 Snelling Curve	Snelling Curve, 2610	17	2,929	2,696	3,164	3,113	3,284	3,323	3,678
2900 Highcrest Road	Highcrest Road, 2900	11	4,581	4,436	2,715	2,534	3,597	3,512	3,720
2950 Highcrest Road	Highcrest Road, 2950	12	2,980	2,295	2,486	2,685	2,496	1,742	1,817
Applewood Pointe	Applewood Court, 1480	94	47,799	58,215	46,499	39,220	36,217	30,640	25,912
Applewood Pointe at Langton Lake	Langton Lake Drive, 1996	48	-	-	-	-	-	7,419	16,144
Aquarius Apartments	County Road C2, 2425	99	-	-	15,391	17,449	12,570	11,702	13,094
Bonaventure	Lexington Avenue North, 3090	30	7,490	8,105	7,033	5,367	5,497	5,281	5,033
Centennial Gardens East & West	Centennial Drive, 1400-1420	190	26,759	21,852	22,677	23,021	21,122	20,025	20,137
Cherrywood Pointe	Cleveland Ave North, 2966	50	-	-	-	-	-	-	3,962
Coventry Seniors Apartments	Snelling Avenue, 2820	196	19,939	19,110	22,729	24,917	22,952	21,268	21,247
Dale Terrace Apartments	County Road B, 720	42	9,360	7,793	12,033	13,323	12,343	11,572	10,371
Dellwood Condominiums	Dellwood Street, 1725	12	1,226	1,923	2,650	2,630	2,721	3,298	2,891

Property Name	Primary Address	# Units	2006 Total lbs.	2007 Total lbs.	2008 Total lbs.	2009 Total lbs.	2010 Total lbs.	2011 Total lbs.	2012 Total lbs.
Eagle Crest	Lincoln Drive, 2925	216	13,892	60,799	56,057	57,249	64,086	67,291	70,827
Executive Manor Condos	Old Highway 8, 3153-3155	72	12,385	14,530	17,674	17,185	15,918	16,897	19,637
Garley Apartments	County Road B, 1634	11	2,153	1,161	1,415	1,547	1,420	1,793	1,897
Greenhouse Village	Larpenteur Avenue, 1021	102	19,032	37,098	28,751	24,581	30,384	25,402	22,453
Hamline House Condos	Hamline Avenue, 2800	150	34,102	33,973	32,182	29,441	24,522	22,481	20,586
Hamline Terrace	Terrace Drive, 1360-1410	102	12,817	12,230	17,366	19,233	23,416	23,105	20,080
Heritage Place	County Road B West, 563	50	21,892	23,110	17,258	16,066	19,781	18,879	16,649
Hillsborough Manor	Woodbridge Street, 2335-2345	206	16,298	17,755	28,418	35,852	29,398	21,312	19,284
Karie Dale Apartments	Dale Street North, 2355-2393	44	6,691	7,455	9,794	8,483	7,508	7,910	6,931
Lake Josephine Condominiums	Lexington Avenue North, 3076	23	9,411	8,313	7,040	6,632	6,179	6,603	6,389
Lar Dale Apartments	Larpenteur Avenue West, 655	17	2,068	2,189	2,348	1,546	2,472	2,865	3,326
Lexington Court	Lexington Avenue, 2192-2206	52	3,390	2,970	4,293	5,076	4,092	4,808	5,924
Lexington Twin Apartments	Lexington Avenue, 1890	22	5,674	5,519	5,456	5,689	5,014	5,371	5,791
Lexlawn/Roselawn Apartments	Lexington Avenue, 1943	34	3,142	2,888	3,774	4,033	3,788	4,074	3,788
Marion Street/ Brittany Apartments	Larpenteur Avenue, 175	277	11,980	16,150	17,191	17,485	18,645	11,838	11,263
McCarrons Apartments	McCarrons Boulevard North, 166-204	67	5,092	4,919	5,543	5,039	4,939	4,172	3,743
McCarrons Lake Condos	McCarons Boulevard N., 185	42	-	-	-	-	-	5,076	7,757
Midland Grove Condos	Midland Grove Road, 2200-2250	174	48,162	60,937	50,758	45,718	48,159	50,575	54,288
MSOCS - Group Home	Huron Street North, 1898	0	-	-	-	615	4,326	3,717	2,452
Northwestern College Apartments	Lydia Avenue, 1610	40	6,061	7,839	4,941	4,379	4,055	4,111	3,418
Northwestern College/Snelling Terrace	Snelling Drive East, 2906	48	7,386	16,027	12,542	12,253	12,443	10,702	11,261
Palisades	Sandhurst Drive West, 535-570	330	40,078	41,635	55,306	51,667	45,972	47,910	40,893
Parkview Estate Condominiums	Oxford Street, 2670-2680	204	28,447	29,206	30,816	29,683	24,738	24,793	23,440

Property Name	Primary Address	# Units	2006 Total lbs.	2007 Total lbs.	2008 Total lbs.	2009 Total lbs.	2010 Total lbs.	2011 Total lbs.	2012 Total lbs.
Parkview Manor	Dale Street North, 2202-2210	34	4,931	4,553	5,085	5,612	4,698	4,518	4,242
Parkview Terrace Condos	Oxford Street, 2690-2700	105	3,960	33,244	28,285	23,919	21,702	19,169	17,420
Ramsey Square Condos	Dale Street North, 2700-2730	192	-	35,796	34,991	35,127	41,288	38,930	37,992
Riviera Apartments	Highway 36 West, 925 & 965	64	12,473	13,597	19,108	17,369	15,204	15,900	14,110
Rose Hill Estates	County Road B, 591	51	4,341	4,904	5,880	5,345	3,775	5,514	5,281
Rose Mall Apartments	Albert Street, 2201-2221	54	37,328	41,412	43,984	47,376	41,250	42,786	39,486
Rose Park Apartments	Fry Street, 2128-2136	22	4,757	5,426	6,065	6,466	4,253	4,591	5,084
Rose Vista Apartments	Rose Vista Court, 1222-1263	175	19,697	18,366	24,634	26,822	23,830	23,146	20,789
Rosedale Estates North	Rice Street, 2835 & 2855	180	21,885	24,253	33,475	34,083	26,954	22,234	19,283
Rosedale Estates South	Rice Street, 2735	180	20,750	23,864	26,581	27,377	23,770	21,632	19,071
Roselawn Village	Roselawn Avenue, 1074	32	5,576	5,950	5,616	5,417	4,730	5,563	5,633
Rosepointe	Hamline Avenue North, 2545 & 2555	190	32,645	29,485	33,312	31,688	31,195	29,229	27,706
Roseridge Estates	Samuel Street, 2086-2090	18	2,653	3,099	3,829	4,537	3,744	5,739	6,519
Rosetree Apartments	Highway 36, 655	48	12,251	12,394	12,654	11,831	10,236	8,515	8,026
Roseville Apartments, LLC	Eldridge Avenue, 1625	11	2,037	2,546	1,833	2,106	1,730	2,172	2,538
Roseville Arms Condos	Elmer Street, 160-170	34	789	1,565	3,269	3,068	2,074	2,780	3,049
Roseville Commons	County Road C2 West, 2496	30	8,332	7,515	8,281	9,065	6,415	6,470	5,999
Roseville Estates	Lexington Avenue, 2599	107	5,593	9,842	12,312	10,028	7,472	6,588	9,453
Roseville Seniors	Larpenteur Avenue, 1045	127	25,581	33,600	30,521	27,577	23,698	24,268	20,647
Roseville Terrace	Dunlap Street, 1759	36	5,363	4,785	5,032	5,469	4,658	4,167	3,876
Roseville Townhomes	Old Highway 8, 3085	40	-	13,423	20,619	24,021	23,733	22,322	29,349
Rosewood Estates (Roseville)	Victoria Street, 2750	106	20,205	22,122	23,413	21,614	20,340	18,408	17,719
Rosewood Village	Highway 36 West, 1630	201	44,374	41,062	34,271	43,368	38,264	36,605	39,188
Sienna Green Apartments*	Snelling Avenue, 2225	120	9,199	9,683	9,659	11,486	7,813	13,325	15,008
South Oaks Apartments	County Road D West, 1080	25	4,067	5,951	6,751	5,930	5,969	4,886	4,344
Sun Place Apartments	Marion Street, 1721	30	5,169	4,093	4,926	6,107	6,451	5,942	4,896
Sunrise Assisted Living	Snelling Avenue North, 2555	77	17,031	16,647	15,869	16,693	13,118	11,330	12,300
Talia Place	Old Highway 8, 3020	11	2,790	1,683	1,761	2,569	2,620	1,892	1,891
Terrace Park	Terrace Drive, 1420	36	12,784	13,045	9,853	8,911	10,533	11,067	9,371

Property Name	Primary Address	# Units	2006 Total lbs.	2007 Total lbs.	2008 Total lbs.	2009 Total lbs.	2010 Total lbs.	2011 Total lbs.	2012 Total lbs.
The Lexington (Roseville)	Lexington Avenue North, 2755	150	37,081	30,796	35,417	35,409	38,816	39,023	42,959
The Riviera 2	Highway 36 West, 885	32	6,562	6,602	8,968	8,053	6,740	5,431	6,168
Valley 8 Apartments	Old Highway 8, 3050	85	11,085	9,910	12,626	13,491	11,637	12,593	12,702
Victoria Place	Victoria Street North, 2250	58	-	14,911	16,130	14,015	14,647	15,396	16,260
Villa Park Community Condominiums	County Road B, 500	95	15,890	14,276	18,589	16,924	17,962	15,178	11,537
Villas at Midland Hills	Fulham Street, 2001	32	2,873	11,653	12,600	11,506	11,375	11,722	12,318
Total Pounds - Residential		6,049	889,659	1,103,172	1,161,075	1,154,984	1,095,854	1,065,358	1,059,275

Municipal Buildings

Property Name	Primary Address	Sites	2006 Total lbs.	2007 Total lbs.	2008 Total lbs.	2009 Total lbs.	2010 Total lbs.	2011 Total lbs.	2012 Total lbs.
Acorn Park	County Road C, 286	1	-	-	-	-	-	184	761
Central Park Victoria West	Victoria Street North, 2495	1	-	-	-	-	-	46	741
City Hall (Roseville)	Civic Center Drive, 2660	1	28,244	28,474	24,682	20,562	21,228	21,590	18,786
Evergreen Park Ballfield	County Road B West, 1810	1	497	515	456	818	305	336	404
Fire Station 1 Roseville^	Lexington Avenue, 2701	1	3,226	3,630	2,134	2,058	2,063	1,890	**
Fire Station 3 Roseville	Dale Street North, 2335	1	1,564	2,786	3,604	2,960	3,968	3,437	2,911
Golf Course (Roseville)	Hamline Avenue, 2395	1	2,729	2,654	2,080	2,149	2,689	2,048	2,093
License Center	Lexington Avenue, 2737	1	79	178	10	38	31	26	-
Owasso Ballfields	Victoria Avenue, 2659	1	120	36	400	361	295	-	171
Public Works Garage (Roseville)	Woodhill Drive, 1140	3	8,341	12,089	13,916	13,566	16,863	16,644	17,608
Skating Center	Civic Center Drive, 2661	2	4,877	5,038	5,244	3,938	5,057	7,514	6,692
State Farm Insurance	Lexington Avenue North, 2201	1	-	-	705	1,758	718	759	241
Wildlife Rehabilitation Center	Dale Street North, 2530	1	14,607	13,948	12,726	12,513	11,840	10,509	9,158
Total Pounds - Municipal		16	64,283	69,348	65,957	60,720	65,057	64,983	59,566

Nonprofits

Property Name	Primary Address	Sites	2006 Total lbs.	2007 Total lbs.	2008 Total lbs.	2009 Total lbs.	2010 Total lbs.	2011 Total lbs.	2012 Total lbs.
Keystone Foodshelf (Roseville)	Hamline Ave North, 2833	1	-	-	-	-	-	14,258	27,119
Total Pounds - Nonprofits			1	-	-	-	-	14,258	27,119

		2006 Total lbs.	2007 Total lbs.	2008 Total lbs.	2009 Total lbs.	2010 Total lbs.	2011 Total lbs.	2011 Total lbs.
MultiFamily & Non-Residential Totals		953,942	1,172,520	1,227,032	1,215,704	1,160,911	1,144,598	1,145,960

Total Units in 2012	6,049
Total Units in 2011	5,999
Total Units in 2010	5,781
Total Units in 2009	5,781
Total Units in 2008	5,781
Total Units in 2007	5,662
Total Units in 2006	5,367

^2275 Rice Street canceled September 2010. Building is demolished

*Har Mar Apartments changed name to Sienna Green Apartments as of November 2010

~1705 Marion is a building with no units, this was corrected in 2011. In 2010 it was reported with 3 units.

** Fire Station 1 was demolished and is being rebuilt. Will reopen in 2013

Eureka Recycling Composition Analysis Methodology

Eureka Recycling collects materials in two streams: a “papers” stream consisting of various grades of paper (including cardboard), and a “containers” stream consisting of food and beverage containers (including glass, plastic bottles, and metal cans). As outlined in our contract, Eureka Recycling conducts an annual composition study of the two streams to create a basis on which the percent of each commodity collected in the two-stream commingled program can be estimated based upon total weight collected in the truck.

Composition by Stream

During the composition study, Eureka Recycling weighs each truck before and after tipping the papers to determine the weight of the papers and containers streams. Each truck has a stored tare weight that is updated regularly for accuracy. This weighing process allows us to determine what percentage of the total recycling collected makes up the papers stream, and what percentage makes up the containers stream.

Composition by Commodity of Each Recycling Stream



The composition study starts with Eureka Recycling storing all of the materials collected in the city in the containers stream during a one-week period in a separate bunker from all other materials at the facility. Eureka Recycling sorts these containers by material separately from all other containers at the facility using the sort line.

The sorted materials are then baled or put into a hopper and transported with a forklift to the truck scale to be weighed. Finally, Eureka Recycling weighs the total amount of each sorted material grade (including residual) to establish a percentage of composition each grade represents within the containers stream.

The entire process is then repeated with the papers stream to establish a composition percentage of each grade of paper within the stream.

(651) 222-SORT (7678)

www.eurekarecycling.org

Our mission is to reduce waste today through innovative resource management and to reach a waste-free tomorrow by demonstrating that waste is preventable, not inevitable.

An affirmative action, equal opportunity employer.

 Printed on 100% postconsumer recycled paper that was processed without the use of chlorine.

Eureka Recycling Participation Analysis Methodology

Eureka Recycling conducts an annual participation study in which both set-out and participation rates are analyzed and documented.

The **set-out rate** is the average number of households that set materials out for recycling collection on a given day. For example, every Monday for one month, collection drivers count the number of households that set out recycling on that day. Then the four numbers are averaged to determine the average number of households who set out recycling on a given Monday.

The **participation rate** is the number of households who set materials out for recycling collection at least once over a period of one month. The participation rate is a better indication of overall recycling participation because it includes households that recycle at least once a month, recognizing that some households may not set out recycling every week. It more accurately indicates how many households are participating in the recycling program *overall*, as opposed to the number of participants on a specific day.



Summary of Process

The study spans one month of collections. Eureka Recycling selects random sections to study for each daily recycling route, each section being comprised of about 200 households per day, for a total study of over 1,000 households. These same sections will be studied every year for consistency. Over a four-week period, Eureka Recycling tallies the exact number of households that set out recycling for collection in the morning of their collection day, before the driver services the section. The four-week study tracks recycling set-outs over the five days of collections during the week, totaling 20 days of set-out tracking.

(651) 222-SORT (7678)

www.eurekarecycling.org

Our mission is to reduce waste today through innovative resource management and to reach a waste-free tomorrow by demonstrating that waste is preventable, not inevitable.

An affirmative action, equal opportunity employer.

 Printed on 100% postconsumer recycled paper that was processed without the use of chlorine.

Roseville Public Works, Environment and Transportation Commission

Agenda Item

Date: March 26, 2013

Item No: 7

Item Description: Solar Energy Presentation

Background:

Staff is discussing a potential solar energy project for city facilities with the City Council on March 25, 2013. We would like to discuss the project with the Commission as well. Attached is the background information provided to the City Council. We hope to have a representative from the proposing firm to give a brief presentation or city staff will present the materials they present to the City Council.

Recommended Action:

Discuss the merits of the proposed project.

Attachments:

A. Council Action item for PV Solar Project

REQUEST FOR COUNCIL ACTION

Date: 3/25/2013

Item No.:

Department Approval



City Manager Approval

Item Description: Discuss Solar PV Installations on City Hall and Maintenance Buildings

BACKGROUND

Recently the City Manager and staff met with Powerfully Green, a solar energy installation company and their financial partner, Newport Partners LLC. We discussed opportunities for PV (photovoltaic) solar energy installation on city facilities. This company is working with the City of Champlin and the City of Lindstrom on installations on their facilities. They use a Minnesota made solar panel in their installations. Staff is aware of two Minnesota manufactures of solar panels. This is important from a financing perspective due to Minnesota made tax credit opportunities.

Solar installations are currently feasible due to tax credit opportunities and Xcel Energy rebate programs. City staff provided energy use information from city hall and the maintenance building on the city campus to Powerfully Green and Newport Partners to determine the feasibility of installations on these facilities. Their findings suggest a 40kw installation on each of the facilities is feasible. This size system would require 25,000 square feet of solar panels on each installation. There is adequate area on city hall/police and on the maintenance facilities for these installations. The systems are connected to the building electrical panel and reduce the amount of electric energy purchased from Xcel. They also feed power back onto Xcel's grid if there is not enough demand from the facility to use the solar generated power. 40kw is the maximum installation under the rebate program through Xcel Energy per metered facility. In order to take advantage of the tax credits available, the city would enter into a guaranteed energy savings contract with the owner of the installation. The installation would be turned over to the city after a defined number of years. The current proposal is to turn the installation over to the city after 6 years. These types of projected are allowed under State Statute 471.345 Subdivision 13 without following usual competitive bidding requirements. There are other requirements in the statute that must be complied with for these projects.

Staff has contacted the other Minnesota manufacturer of solar panels for comparison of available options for their product. The City of Maplewood completed two installations of TenK Solar panels at their city hall and community center site last fall. They will be reviewing performance information from their installations in the near future and offered to share it with Roseville staff.

Representatives from Powerfully Green and Newport Partners will be at the meeting for a short presentation and the subsequent staff discussion with the Council.

POLICY OBJECTIVE

The City Council goals and strategic directives include sustainability as a priority. Renewable power fits these goals and is also supported in the IR 2025 document.

35 FINANCIAL IMPLICATIONS

36 This project could be funded by energy savings achieved in the 2012 budget year in the Building
37 Maintenance area or capital improvements in the Building Fund. The upfront cost to the city is
38 approximately \$66,000. The total project cost is estimated at \$660,000. The payback in energy
39 savings is 12- 13 years for the city's initial investment with an additional projected \$237,000 in
40 energy savings in the first 30 years. Additional savings would be realized in subsequent years.
41 The projections include an assumed 4% inflation factor on energy costs.

42 STAFF RECOMMENDATION

43 Staff recommends the City Council discuss the merits of solar installations on city facilities and
44 consider authorizing staff to further study project feasibility and financing proposals from
45 potential partners. Staff may need to sign a non-binding letter of intent on behalf of the city to
46 further a project to final proposal for consideration by the City Council. Staff will come back to
47 the Council with a specific recommendation at a future meeting.

48 REQUESTED COUNCIL ACTION

49 Discuss Solar PV installations on city facilities and authorize staff to seek proposals for future
50 consideration.

51

Prepared by: Duane Schwartz, Public Works Director
Attachments: A. None

Roseville Public Works, Environment and Transportation Commission

Agenda Item

Date: March 26, 2013

Item No: 8

Item Description: LED Retrofit Plan

Background:

The Commission previously discussed LED lighting and recommended the city move forward on a plan to retrofit city owned outdoor lighting. The City Council appropriated \$25,000 per year beginning in 2013 to replace or retrofit existing lighting systems. Staff has a preliminary retrofit plan we will present at your meeting.

Recommended Action:

Comment on LED retrofit plan.

Attachments:

A. None

Roseville Public Works, Environment and Transportation Commission

Agenda Item

Date: March 26, 2013

Item No: 9

Item Description: Look Ahead Agenda Items/ Next Meeting April 23, 2013

Suggested Items:

- Open Meeting Law Discussion with City Attorney
- Discuss Co. Rd. B-2 Sidewalk Plan
- Pathway Master Plan and NRATS Committee Update
-

Recommended Action:

Set preliminary agenda items for the April 23, 2013 Public Works, Environment & Transportation Commission meeting.