CITY OF GRAND JUNCTION RECYCLING PROGRAM AND FACILITIES UPGRADE

2010 RECYCLING RESOURCES ECONOMIC OPPORTUNITY FUND GRANT

FINAL REPORT

JULY, 2010

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I. ORGANIZATION INFORMATION

1. **Agency Name:** City of Grand Junction
2. **Project Title:** City of Grand Junction Recycling Program and Facilities Upgrade
3. **Name of Project Manager:** Kathy Portner
4. **Project Manager e-mail address and phone number:** kathyp@gjcity.org/970-244-1420
5. **Name of person completing this report:** Kathy Portner
6. **E-mail address and phone number of person(s) completing this report:** kathyp@gjcity.org/970-244-1420

II. WORK PLAN

Deliverable	Completion Date	Comments
Provide 3-phase power to large storage ring area for the baler and cover for material processing and storage	June 23, 2010	We received only one bid to cover the large storage ring area and decided it would be more effective to bid out a new building, thus the original timeline was delayed.
Purchase new baler and portable dock	June 10, 2010	Delivery of the equipment had to be delayed until the building was constructed.

III. GRANT PROJECT INFORMATION

1. **Executive Summary:** The City of Grand Junction Recycling Program and Facilities Upgrade project greatly expanded the capacity of the current, community-based recycling program and facility, operated by GJ CRI. The facility is one of only two multi-material recycling options in the area. Prior to the upgrade, there was sufficient storage and equipment to collect, process, store and ship 3.5 million pounds of recyclable commodity per year. The purchase of a baler and construction of a building has expanded the capacity of the operation to 9 million pounds per year to meet the growing demands of customers and maintain the well established relationships with trucking firms and domestic markets and mills.
2. **Project Description and Overview of Work Completed:** The recycling center had only one baler that was only capable of handling 3.5 million pounds of material. Further, if the baler went down, which it occasionally does, there is not capacity for handling the material. An additional baler was purchased to process the predominant materials, primarily fibers (newsprint, cardboard, magazines, paperback books, junk mail and office paper) that businesses, residents and other recycling programs bring to the facility. The existing baler will be utilized to continue to prepare other commodities (steel cans, aluminum, PET, PET-G, HDPE natural, HDPE rainbow, P2S, CBS, PM) for market.

In addition, a new building was constructed to house the baler and for storage. Due to market conditions, shipping distances, the need to store minimum loads of at least 45,000 pounds and requirements by mills to keep baled commodities shielded from sunlight and weather, additional covered storage was needed to meet the growing demand for recycling services.

The stated goals of the project were to "increase the processing capability of the recycling facility from approximately 3 million pounds per year to 9 million pounds per year" and to "increase the storage capability for baled product to reflect the realities of current and near term (1 to 5 years) commodity markets and to keep product protected from the elements". The purchase of the baler and construction of the building will allow GJ CRI to achieve that goal.

3. **Summary of Findings and Results:** The City purchased and installed an Excel Baler, Model 2R63 with conveyor and also constructed a building to house the baler and large baling area for cardboard recycling. The project was recently completed, so an increase in material processing has not yet been realized. The additional capacity will enable GJ CRI to increase the volume of recyclable commodity that is collected, processed, stored and shipped from 3.5 million pounds per year to 9 million pounds per year. The facility will now be able to accept more material from both residential and commercial sources.
4. **Summary of Unanticipated Outcomes or Roadblocks:** The original proposal was to cover one of the large, concrete rings that was being used for storage of materials. We put that project out to bid and receive only one proposal. After further evaluation it was determined that the project would be better served with a new building. To put a new bid package together, some upfront design and engineering work had to be completed, which slowed our progress. However, when the project was bid, we received some very competitive pricing.
5. **Communication of Project:** The project has been featured in newsletters from both the City of Grand Junction and GJ CRI, as well as receiving media attention. We will continue to report on the growth of the program.
6. **Future Impact of Project:** The project will allow for a 3-fold increase in material that the GJ CRI facility is able to collect, process, store and ship. The increase in capacity not only benefits Grand Junction, but also many other communities on the Western Slope that utilize the drop-off.

7. **Financial Summary:**

Grant Budget Table Breakdown

(City of Grand Junction) (RREO)

	Grant Funds Spent	Matching/In Kind Amount (if any)	Total Amount
Personnel Salaries & Wages		$13,189.34	$13,189.34
Fringe Benefits		$5,652.58	$5,652.58
Tuition/Fees			
Travel Costs			
Materials/Supplies/Equipment (under $5,000)			
Equipment Purchases (over $5,000)	$152,022.00	$12,000.00	$164,022.00
Contractors/Subcontractors	$154,165.00		$154,165.00
Consultants		$1,690.55	$1,690.55
Training/Educational classes			
Marketing/Advertising			
Other Direct Costs		$13,926.83	$13,926.83
Indirect Costs			
Total Project Cost:	**$306,187.00**	**$46,459.30**	**$352,646.30**

Total award amount: $306,187

The grant funding was used for the following:

- $7,260.23—bay door, translucent panels and lighting for building
- $144,875.32—building construction
- $2,029.45—soil testing and analysis
- $152,022.00—baler purchase

The matching/in-kind is as follows:

- $13,189.34—city staff hours in design, engineering and over-sight
- $5,652.58—city staff benefits based on hours
- $12,000.00—portable dock purchase
- $1,690.55—foundation design
- $11,588.00—power to the building, dumpster, grading and drainage, asphalt, building signs
- $2,338.83—phone and paging system

8. **Final Conclusion:** This project was essential for the recycling program to go to the next level and meet the increasing demands for service. The number of curb-side pick-up customers continues to grow. In addition, there is a growing demand for recycling pick-up for commercial customers. GJ CRI had only been able to accommodate a small percentage of that demand because of handling and processing capabilities. The City is also committed to offering recycling at all City sponsored events and facilities; however, again, additional handling capacity was needed for that material. Further, the drop-off facility also continues to grow, with an average of 80 – 100 customers per day.

   The opportunity to expand the capacity of the facility from 3.5 million pounds to 9 million pounds of material would not have been possible without the Recycling Resources Economic Opportunity fund grant. Typically, investments in the facility have been in small increments to meet the growing demand, and relied heavily on Steve Foss' ingenuity to create a low-cost solution. Without the grant, neither the City nor GJ CRI would have been able to make the significant investment that was needed to dramatically increase handling capacity of the facility.

9. **Appendix**
   a. **Grant Metrics** (See attached)
   b. **Community Leaders Contact Information:**
      - Greg Trainor, Director of Facility, Streets and Utilities, 970.244.1564, gregt@gjcity.org
      - Teresa Coons, Mayor of City of Grand Junction, 970.244.1504, teresac@gjcity.org
      - Laurie Kadrich, City Manager of Grand Junction, 970.256.4154, lauriek@gjcity.org

   c. **Photos** (see following pages)

EXCEL

DEERF
Frito-Lay
Frito-Lay

G

Grant Metrics

Date project fully operational: July-10

(Based on deliverables- month that impact of grant would have changed volumes/job creation/participants)

Diversion Rates:

(Choose one material per box. Only list those collected over the grant cycle. Must be listed as "tons". See tab labeled "Conversion Tables" if needed.)

Material Diverted #1 Newspaper/Office paper

	Tons Diverted
July-09	65
August-09	69
September-09	68
October-09	63
November-09	86
December-09	74
January-10	62
February-10	72
March-10	101
April-10	88
May-10	90
June-10	73
Total	911

Other div. material:

Material Diverted #2 Aluminum / Steel cans

	Tons Diverted
July-09	5
August-09	5
September-09	5
October-09	5
November-09	5
December-09	7
January-10	5
February-10	6
March-10	6
April-10	5
May-10	6
June-10	7
Total	67

Other div. material:

Material Diverted #3 Plastics (#1-7)

	Tons Diverted
July-09	6
August-09	7
September-09	8
October-09	6
November-09	6
December-09	7
January-10	7
February-10	8
March-10	7
April-10	6
May-10	7
June-10	8
Total	83

Other div. material:

Material Diverted #4 Electronics (CPUs, TVs, etc.)

	Tons Diverted
July-09	0
August-09	13
September-09	0
October-09	0
November-09	0
December-09	0
January-10	0
February-10	13
March-10	0
April-10	0
May-10	0
June-10	0
Total	26

Other div. material:

Material Diverted #5 Scrap metal

	Tons Diverted
July-09	0
August-09	0
September-09	0
October-09	0
November-09	0
December-09	0
January-10	0
February-10	0
March-10	0
April-10	0
May-10	0
June-10	0
Total	0

Other div. material:

Material Diverted #6 Cardboard

	Tons Diverted
July-09	37
August-09	42
September-09	38
October-09	37
November-09	25
December-09	32
January-10	37
February-10	29
March-10	22
April-10	42
May-10	40
June-10	42
Total	423

Other div. material:

Material Diverted #7 Glass

	Tons Diverted
July-09	30
August-09	47
September-09	47
October-09	41
November-09	20
December-09	43
January-10	24
February-10	21
March-10	49
April-10	25
May-10	65
June-10	25
Total	437

Other div. material:

Material Diverted #8 mpostable (Food/Yard Waste, etc.)

	Tons Diverted
July-09	0
August-09	0
September-09	0
October-09	0
November-09	0
December-09	0
January-10	0
February-10	0
March-10	0
April-10	0
May-10	0
June-10	0
Total	0

Other div. material:

End use of diverted materials:
(Describe where materials are going
[e.g., MRF, new products, reuse])

NEW PRODUCTS

Number of Permanent Jobs Created: 1

(Include full-time & part time paid positions.
1 FTE = 2080 Hours Worked)

Type of Permanent Job(s) Created:

(Provide titles of jobs created)

BALER OPERATOR

Average Salaries of Jobs Created: $15,001 - $30,000

(Average of all jobs created)

Average Monthly Customers for FY 09: 4000

(July 1, 2008 - June 30, 2009)

Average Monthly Customers for FY 10:

(Estimate or customer lists)

5000	Ave. Monthly Amount
July-09	143
August-09	183
September-09	166
October-09	152
November-09	142
December-09	163
January-10	135
February-10	149
March-10	185
April-10	166
May-10	208
June-10	155
Ave. / FY 10	162.25