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FORM A

SOLID WASTE ALTERNATIVES PROGRAM

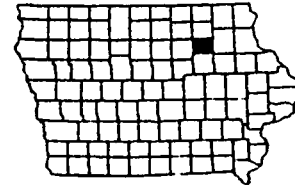
Project Title: Baler for Bremer County Recycling Program		
Applicant Name: Bremer County Recycling		
Street Address: 415 East Bremer Ave.		
City/State/Zip: Waverly, IA 50677		
Mailing Address (if different): same		
P.O. Box:		
City/State/Zip:		
County: Bremer County		
Contact Person: Tamara Turner	Brett Vette	
Telephone Number: (319)882-4742	(319)352-4574	
E-mail Address: bremerwr@netins.net		
Applicant Type:		
☒ Local Government	☐ Private For Profit	☐ Private Not For Profit
Primary Project Type:		
☒ Best Practices	☐ Education	☐ Market Development
Amount of Funding Requested:	\$ 23,925	20,000 23,925
Amount of Applicant Match Committed:	\$ 29,975	
Total Project Cost:	\$ 53,900	
Facility Location: Bremer County Recycling Center 1953 Larrabee Ave Waverly IA 50677		
Project Service Area Description: Bremer County		
Signature: <i>Tamara Turner</i>		
Title: Bremer County Recycling Coordinator/Waste Reduction Educator		
Date: 12-22-1999		

FORM B

PROJECT NARRATIVE SOLID WASTE ALTERNATIVES PROGRAM

1) Project Description

Bremer County is in partnership with eight communities (Denver, Frederika, Janesville, Plainfield, Readlyn, Sumner, Tripoli, Waverly), rural areas of the county, Waverly Shell-Rock High School and Wartburg College to pursue the most efficient and cost-effective recycling program possible for the citizens of Bremer County.



Through the changes outlined in this preproposal and a new education program already in place, we hope to divert materials from the landfill in a more cost-effective manner and operate the County Recycling Center with greater efficiency.

Bremer County started the county recycling program in 1990 with an older model horizontal baler. Prior to 1999, plastics were the only material baled in Bremer County. A substantial amount of the recycling program budget existed to cover transportation costs, as most of the materials were sold loose.

In an effort to become more self-sufficient and cost-effective, the county began baling cardboard and tin this past summer, in addition to baling plastic. The county provided several buildings for the storage of recycled bales.

Earlier this month the county's older baler broke down for the second time in six months, leaving the county with expenses of nearly \$5,000 this calendar year for parts/labor on the aging baler.

In an effort to boost the waste reduction program and receive greater revenue for baled vs. loose materials, Bremer County is submitting a preproposal for a new automatic horizontal baler for the County Recycling Program. Without the baler, the Bremer County Recycling Program cannot afford the rising cost of transportation. The Bremer County Recycling Program provides recycling opportunities to all urban and rural Bremer County residents and provides the only means of recycling in Bremer County.

2) Project Need

A) Proposed Project

This project will involve the purchase of a new baler for the baling of tin food cans, corrugated and single-layer cardboard, and various plastics at the Bremer County Recycling Center. Not only will the baler enhance our operation's efficiency but will add more economic value to the materials that our county recycling program is aiming to divert from the landfill.

B) Project Service Area

Changes in the program will involve all residents of Bremer County. As the program stands now, the county gives each city a percentage of the revenue from the recyclables, based on their volumes compared to the other towns in the county.

recycling program. By baling materials and hopefully getting greater revenue, the county will be able to give the cities a larger revenue check, which may encourage the cities to more actively promote their own city recycling programs.

C) Targeted Population

All 22,000+ Bremer County citizens will benefit from the baling of recyclable material, as it will be a more cost-effective method of waste reduction than selling materials loose.

D) Type, Source, and Amount of Waste Targeted

Type- Corrugated & Single Layer Cardboard

Source- Businesses, Households, Schools

Amount Targeted- FY 98: 68.59 tons was diverted

Type- Tin Food Cans

Source- Businesses, Households, Schools

Amount Targeted- FY 98: 55.3 tons was diverted

Type- Plastics

Source- Businesses, Households, Schools

Amount Targeted- FY 98: 33.0 tons was diverted

E) Current Waste Management Method

In Bremer County, all materials that are part of the county recycling program are picked up by the county's contracted recycling transportation company and brought to the County Recycling Center. For the majority of the program's history, tin and cardboard have been transported to recycling vendors loose. Over the course of each year, a substantial amount of funds were needed to pay for the transportation of material to vendors. On top of this, revenue from loose vs. baled material was much lower as well.

Some areas of Bremer County's current waste management methods are not cost-effective and require change in order for Bremer County to become more self-sufficient and less vulnerable to transportation costs. Acquiring a baler for recyclable materials will allow Bremer County to stockpile materials until optimum prices are offered.

F) Comprehensive Planning Area's ISWM Program

The waste reduction and recycling activities implemented in the INRCOG (Bremer County) comprehensive planning area have been very successful. Significant reduction in wastes to be landfilled is far above the state average of 36% waste reduction. Bremer County is a member of the INRCOG Comprehensive Solid Waste Management Planning Region, along with Black Hawk County, Buchanan County, Grundy County and the City of Lawler. Within the region we have accomplished a waste reduction rate of 52.65% (INRCOG Comprehensive Solid Waste Management Plan, third revision). The following highlights programs and activities as part of

the Bremer County Recycling Program and Comprehensive Plan.

Bremer County:

- continues to refine existing waste reduction operations through increased education and publicity in all forms of the media.
- hired a new Recycling Coordinator/Waste Reduction Educator who works out of the Bremer County Conservation Board. The Recycling Coordinator has reached over 1,640 people during 58 programs on waste reduction (recycling, composting, reducing, and vermicomposting) from January - December 1999.
- expanded cardboard recycling to include single-layer cardboard and brown paper bags, along with the corrugated.

3) Project Objectives and Participation

A) Project Objective

Bremer County's overall objective is to make our recycling program as efficient and cost-effective as possible, while at the same time attempting to divert a larger tonnage of material. Acquiring a new baler will allow the county to use recycling funds for improvements to the recycling program and waste reduction education, instead of wasting them on transportation. Through greater education measures and public awareness of recycling opportunities in the county, we hope to keep boosting the recycling tonnage each year.

B) Project Goals

A new horizontal baler will be purchased to enable the county to bale tin and cardboard, as well as plastic.

C) Project Goals

1) Obtained

Various balers have been researched and distributors have been in contact with both the Landfill Manager and Recycling Coordinator.

2) Measured

All materials sold by the bale will be weighed at the point of sale at the vendors. Invoices will show the amount of material recycled, increases in tonnage, and decreases in transportation costs.

3) Sustained

Baled materials will mostly likely continue to bring greater revenue than loose. The money saved by minimizing transportation costs and greater revenue from baled materials can be used to expand recycling or encourage other avenues of waste reduction. Vital to the growth of waste reduction in Bremer County is the support of the waste reduction education program through the Conservation Board.

Four items are included in the countywide recycling program (as they are the same from city to city and include Milk Jugs, Clear Glass, Newspaper, and Tin Food Cans). Since the Bremer County Waste Reduction Education Program started in January 1999, over 130 more tons of recyclables have been collected from the cities (as of the end of November). This includes just the four items that can be compared across the board from city to city. This represents an increase of 24% from last year and does not include December's numbers yet.

With the success of this year's education program involving educational presentations, newspaper articles, and radio shows, Bremer County hopes to boost waste reduction with each passing year.

4) Justified

These changes are simple, but will make a high impact on the overall efficiency and cost of the county recycling program. The baling of material will make the county program more cost-effective than it's ever been before, ensuring the continued support of the recycling program by the county supervisors and general public.

D) Tangible & Non-tangible Project Deliverables

Greater efficiency of the program will allow the county to expand recycling in the future. Increased awareness will continue to encourage various waste reduction opportunities that the county and cities can offer it's citizens.

E) Project Participants Relevant Experience and Role In Project

Tamara Turner- Bremer County Recycling Coordinator/Waste Reduction Educator & Asst. Naturalist for the Bremer County Conservation Board.

Experience includes coordination of activities and staff at the Bremer County Recycling Center and sale of recyclables since January 1999. Has worked in the field of environmental education for over six years.

Brett Vette- Bremer County Landfill & Reg. Collection Center Manager

Experience includes management of the Bremer County Landfill since 1991. Responsible for maintenance at Bremer County Recycling Center. Has provided assistance with sale of recyclable materials since 1994. Stepped in as interim Recycling Coordinator in 1998.

4) Project Impact

A) Amount and Type of Waste Diverted From Landfill

Cardboard- In fiscal year 1998, 68.59 tons of cardboard was diverted from the landfill as part of the county's cardboard recycling program.

Tin Food Cans- In fiscal year 1998, 55.3 tons of tin was diverted from the landfill due to the county recycling program.

Plastics- 33.0 tons of plastic was diverted from the Bremer County Landfill during fiscal year 1998.

B) Calculate Cost Per Ton Diverted

Cost of Diverted Cardboard:

Currently: \$128/ton (Just includes transportation costs)

Cost of Diverted Tin:

Currently: \$120/ton (Just includes transportation costs)

Cost of Diverted Plastics:

Currently: \$190/ton (Just includes transportation costs)

C) Targeted Population Affected and Desired Behavioral Changes

Through press releases and the newsletter that the Recycling Coordinator sends to all city staff, city councils, and interested citizens, the public will be informed of the new baler and will take pride in that the recycling program is becoming more efficient. The targeted population affected will be all Bremer County residents. Through continued news coverage and education programs we hope that Bremer

County residents who are not recycling yet will see the connection between recycling and the 12-15 year lifespan of the county landfill. As a result of educational tours of the Bremer County Recycling Center, press releases, an Open House for Earth Year 2000, and Iowa Recycles Day activities, an increase in recycling is expected.

D) Toxicity Reduction

NA

E) Market Effects

Market prices are not expected to increase anytime soon. Baled materials are still expected to bring greater revenue than loose.

F) Replicability

It is almost assured that any program that revises their operation to include baling versus hauling material to a vendor will reap rewards in savings and efficiency. After the changes are evaluated, Bremer County will be able to document the amount of savings that other programs can expect if they switch to baling materials.

G) Sustainability

The changes in the program are simple and will remarkably improve the effectiveness of the county recycling program. The baling of more materials will become a permanent fixture of the recycling program and will provide an easy, yet positive economical boost to the program. No other single change will impact the county recycling program more.

SOLID WASTE ALTERNATIVES PROGRAM

Project Ending Date: Spring 2000

This timetable should account for planning and if applicable, construction phases of the project as well as the first year of project implementation.

Task or Activity	Beginning Date For Each Task	Ending Date For Each Task	Group/Person Responsible
Purchase Horizontal Baler	Spring 2000	Spring 2000	Brett Vette
Install Baler	Spring 2000	Spring 2000	Brett Vette

FORM D

BUDGET SUMMARY SHEET

SOLID WASTE ALTERNATIVES PROGRAM

Applicant Name: Bremer County Recycling

ITEM AND QUANTITY	DNR REQUEST	LOCAL SHARE	TOTAL COST
Horizontal Baler- 1 with trade-in	\$23,925	\$7,975	\$31,900
Existing Pole Building for Recyclables Storage	\$0	\$22,000	\$22,000
	\$23,925	\$29,975	\$53,900

Note: Follow guidelines closely regarding the maximum amount of funding assistance possible for each expenditure involving program funds. All eligible expenses will be funded at not more than 75%.

When completing Form D, clearly identify existing local match items from local match items where financial assistance will not be requested.



MID-IOWA SOLID WASTE EQUIPMENT CO., INC.
5105 N.W. BEAVER DRIVE
JOHNSTON, IOWA 50131
(515) 276-3352 FAX (515) 276-2976

996121-1

SALES QUOTATION

DATE: DECEMBER 16, 1999

THIS QUOTE GOOD FOR 30 DAYS

TO: BREMMER COUNTY LANDFILL
415 E. BREMMER AVE.
WAVERLY, IOWA 50677
ATTN: BRETT VETTE

WE ARE PLEASED TO PROPOSE THE FOLLOWING FOR YOUR CONSIDERATION

- 1 NEW MARATHON GEMINI 3560 HORIZONTAL BALER
DESIGNED FOR MULTI-MATERIAL OPERATIONS
FULL PENETRATION RAM FOR MAXIMUM COMPACTION AND FULL BALE EJECTION
TWIN CYCLINDERS WITH 20 HP MOTOR AND 230 VOLT POWER PACK
CYCLE TIME OF 39 SECONDS
UPPER PHOTO CELL
CUSTOM DESIGNED FLARED HOPPER FOR HAND OR BOBCAT FEED
MARATHON'S BALER WARRANTY---6 MONTHS LABOR AND 12 MONTHS PARTS

SUB-TOTAL	\$32,683.00
FREIGHT	400.00
INSTALLATION	1,612.00
TOTAL	\$34,695.00

***CUSTOMER TO PROVIDE 3 PHASE POWER TO WITHIN 6' OF BALER

***INSTALLATION BASED ON CLEAR UNOBSTRUCTED ACCESS TO BALER SITE

***TRADE IN FOR OLD SUMMIT BALER: DEDUCT \$1000.00 FROM TOTAL ABOVE.

***OPTIONAL HYDRAULIC BALE DOOR LOCK: ADD \$1240.00

NOTE:

ABOVE PRICES DO NOT INCLUDE SALES TAX.

THANK YOU FOR YOUR CONSIDERATION,

STEVE SUTTON

"TOTAL SOLID WASTE SYSTEMS"
CALL 1-800-REFUSE-1



CITY CARTON COMPANY INC.

OWNE KEEKE
3 E. Benton St.
Iowa City, IA 52240
(319) 351-2848
FAX (319) 351-3818
Iowa Only Wats (800) 369-8112

Check us out @ www.citycarton.com

Fax Cover Sheet

Date 21 December 1999

ATTN Brett Zette

Company Bremer County

Fax # 352-2565

From Andy Dekenfels

Number of pages including Cover Sheet 3

Comments: Brett:

Here is the specification and pricing
you requested. Full bid proposal can
be sent as your request.

CRAM-A-LOT HX-72 - 72" Horizontal Baler
EXTRA HEAVY DUTY: \$41,900 Plus ^{Freight - From Ark.} Installation - By City
Carton.



RECOVERY SYSTEMS COMPANY, INC.

1617 FIFTH STREET SOUTH • HOPKINS, MINNESOTA 55343

PHONE 612/935-4330

FAX 612/935-6875

Tammy Turner
BREMER COUNTY
P O Box 412
Tripoli, IA 50676



Proposal #99127

Dear Ms. Turner,

At the request of our regional sales manager, Steve Roy, Recovery Systems is pleased to submit the following proposal for your consideration.

Quoting as follows:

1. One (1) Excel Model EX62 automatic horizontal baler is equipped with a TEFC 20 H.P. 230/460 volt, 3-phase motor which delivers up to 159,400 lbs. of compaction force with 92 psi ram face pressure, automatic controls, removable shear blade with four cutting edges, automatically cycled with photo eyes, ratchet binder door lock, (2)-6" cylinder bore x 74" stroke x 4" hardened chrome rods, automatic bale sizing system, full bale ejection, 43" of ram penetration into chamber, and all safety switches. It produces bales measuring 60"L x 30"H x 48"W and weighing up to 1,600 lbs. (depending on materials).

COST BREAKDOWN

Excel EX62	\$33,750.00
Front Load Hopper	2,000.00
Freight	350.00
Off-loading, Installation, Start-up and Training	1,300.00

Total systems price delivered and installed would be \$37,400.00. Installation does not include electrical hook-up or building modifications, if needed. The above pricing is good until December 31, 1999. On January 1, 2000 the new total price will be \$38,650.00

2. Optional

One (1) Excel Model EX63 automatic horizontal baler is equipped with a TEFC 20 H.P. 230/460 volt, 3-phase motor which delivers up to 159,400 lbs. of compaction force with 92 psi ram face pressure, automatic controls, removable shear blade with four cutting edges, automatically cycled with photo eyes, hydraulic door lock, regenerative hydraulics, (2)-6 cylinder bore x 74" stroke x 4" hardened chrome rods, automatic bale sizing system, full bale ejection, 43" of ram penetration into chamber, and all safety switches. It produces bales measuring 60"L x 30"H x 48"W and weighing up to 1,600 lbs. (depending on materials).

COST BREAKDOWN

EX63	\$37,500.00
Front Load Hopper	2,000.00
Freight	350.00
Off-loading, Installation, Start-up and Training	1,300.00

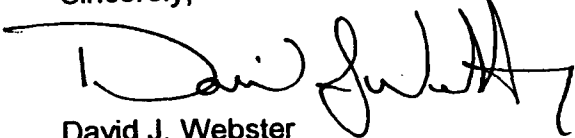
Total systems price would be \$41,150.00. The above pricing is good until December 31, 1999. On January 1, 2000 the new total price will be \$42,650.00. Installation does not include electrical hook-up or building modifications, if needed. Delivery on either the EX62 or the EX63 could be made within 4 weeks from receipt of an order and down payment.

TERMS: 20% Down with order
70% Prior to shipment
10% Upon acceptance of the baler, not to exceed Net 30

Recovery Systems does have an interest in your existing Summit baler depending on its condition. We would like to see this baler prior to making an offer.

Thank you for your interest in Recovery Systems products and services. If you have any questions, or if we can be of any further assistance, please do not hesitate to call 1-888-935-4330.

Sincerely,



David J. Webster

DJW/jmn

cc: Bret Vette



DEPARTMENT OF NATURAL RESOURCES

THOMAS J. VILSACK, GOVERNOR
SALLY J. PEDERSON, LT. GOVERNOR

PAUL W. JOHNSON, DIRECTOR

January 26, 2000

Brett Vette
Bremer County Recycling
415 East Bremer Ave
Waverly, IA 50677

11:00
Fund

RE: Solid Waste Alternatives Program
Selection for further review

Dear Mr. Vette:

The Waste Management Assistance Division and the review committee have completed its review of Solid Waste Alternatives Program pre-proposals submitted during the January 2000 round of funding. We are pleased to announce that your pre-proposal has been selected for further review. This letter **does not** assure funding. Review and approval of the following information is required before funding recommendations take place.

The review committee requests that you submit:

- Since processed tonnages are relatively small, please justify the decision to purchase a horizontal bailer as opposed to other types.
- A budget comparing cost and revenues between bailing the commodities or shipping them loose. If the bailed commodities bring a greater return, what will the revenue be spent on?
- Are there plans to expand the recycling operation to process additional materials such as magazines and paper?

Required materials must be submitted by Feb. 16, 2000. An informal question and answer session to discuss the project will be held with the review committee on **Feb. 25, 2000** at the Department of Natural Resources in Wallace State Office building in Des Moines. Please call me at 515-281-8672 to schedule an appointment for this question and answer session. A decision regarding funding will be made after the question and answer session.

If approved, a draft contract will be constructed for your review and approval. Once a final contract has been approved by the Environmental Protection Commission and signed by project participants along with the Department, Solid Waste Alternatives Program funds will be made available.

If you have any questions, please contact me at 515-281-8672.

Sincerely,

Leslie Leager
Program Planner
Waste Management Assistance Division

BREMER COUNTY SANITARY LANDFILL

COURTHOUSE

WAVERLY, IOWA 50677

Phone: 319-352-0133

Fax: 319-352-0290



Brett Vette
Landfill Manager

2-14-00

Leslie Leager, WMAD
Department of Natural Resources
Wallace State Office Building
Des Moines, IA 50319

Re: Additional Information
Solid Waste Alternatives Program

Dear Ms. Leager:

Please find additional information requested for the Bremer County Recycling baler purchase Solid Waste Alternatives Program grant application. If you have any questions or need more information please contact me at (319) 352-4574.

Sincerely,

A handwritten signature in black ink, appearing to read "Brett Vette", is written over a horizontal line.

Brett Vette

Bremer County Landfill Manager

2000 FEB 15 P 2:15
DEPT. OF
NATURAL RESOURCES

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 01-10-2001 BY 60322
1-10-01 10:00 AM

CONFIDENTIAL - SECURITY INFORMATION
DATE 01-10-2001 BY 60322

CONFIDENTIAL - SECURITY INFORMATION

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 01-10-2001 BY 60322

CONFIDENTIAL - SECURITY INFORMATION

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 01-10-2001 BY 60322

SOLID WASTE ALTERNATIVES PROGRAM

ADDITIONAL INFORMATION

Decision to purchase horizontal baler:

Bremer County currently operates a horizontal baler at the recycling center. When looking at the horizontal versus a vertical baler we compared four items: material feed, the variety of materials we bale, processed bales per hour and price.

No.1

With a horizontal baler materials are fed into a hopper by a skid loader, this works well for us. Materials are hand fed or are fed by a conveyor into a vertical baler. A conveyor is an added purchase cost and is one more thing to maintain.

No.2

Bremer County Recycling bales cardboard, plastics and steel cans. The horizontal baler is made for all these types of materials, where as the vertical baler needs special equipment to bale steel cans, i.e. larger cylinders, which puts stress on other parts of the baler. Also when baling newsprint with a vertical baler you must evenly distribute the material across the chamber by hand or you will damage the cylinder rod.

No.3

The only operator position at the recycling center is a part time position. This person is responsible for lawn care, maintenance, etc. of several County owned properties especially during the spring, summer and fall seasons. We need a baler that has the capacity to bale multiple bales per hour. A horizontal baler will do this, 4-5 bales per hour. A vertical baler will not, ~~1-2~~ bales per hour.

2-3

If we begin baling the materials we sell loose, one part-time employee would process an additional 106 bales per month; another 26 hours per month for a horizontal and 70 hours for a vertical.

Horizontal over vertical saves \$6,336 per year in labor costs. (4 bales/hr vs. 1.5 bales/hr)

No. 4

Purchase price of the balers was considered. A horizontal baler would cost \$31,900 and a vertical baler would cost \$13,700 and \$6,500 for a conveyor. Over a twenty-year life expectancy this is only \$585 more per year for the horizontal baler.

Budget:

Bremer County Recycling	OCC	Newspaper	Tin
<i>\$/ton baled</i>	\$80	\$60	\$45
<i>\$/ton loose</i>	\$12.50	\$30	\$18
<i>Tons collected/yr</i>	68	648	55
<i>Bale weight</i>	1000lbs.	1200lbs.	1500lbs.
<i>\$ revenue / yr baled</i>	\$5,440	\$38,880	\$2,475
<i>\$ revenue / yr loose</i>	\$850	\$19,440	\$990
<i>\$ labor / yr baling</i>	\$2,176	\$8,640	\$576
<i>\$ labor/ yr loose</i>	\$2,246 (transportation)	\$4,408	\$522
<i>Increased revenues (baling over loose)</i>	\$4,590	\$19,440	\$1,485
<i>Labor costs (baling over loose)</i>	-\$70	+\$4,232	+\$24
<i>Transportation savings / yr. (baling over loose)</i>	\$2,200	\$11,400	\$900

Bremer County Recycling distributes all revenues from marketed recyclables back to the cities for use in their programs. This money can be used for labor costs, buildings, equipment, etc., items that will improve their recycling program.

According to the latest INRCOG Solid Waste Management Plan-Third Revision, the base year adjustment analysis indicates Bremer County has achieved a 47.89 percent reduction in their waste stream.

We have in place, through the Bremer County Conservation, an excellent education program targeting the entire population. Information on recycling and our Regional Collection Center for Household Hazardous Materials is presented to schools, city councils, businesses, civic groups and other organizations.

Expand recycling operation to process additional materials:

Cardboard-

Bremer County Recycling wants to amend the current packer truck transportation contract to bring all cardboard generated in Bremer County to the recycling center to be baled. Currently over 63 tons per year is sold loose. We have purchased 10 – 8yard dumpsters for additional cardboard collection through businesses and schools. Baling would save \$2,200/year in transportation costs.

Loose Newspaper-

Bremer County Recycling sells over 656 tons of loose newspaper per year. With a new baler we are seriously looking at baling vs. shipping loose. Baling would save \$11,400/year in transportation costs.

Loose Tin-

Bremer County Recycling sells over 55 tons of loose tin per year. We will begin baling tin when a new baler is purchased. Baling would save \$900/year in transportation costs.

Life expectancy of a horizontal baler:

With expansion in mind, a horizontal baler will last us beyond 20 years. All major wear parts are replaceable on new models.

Purchase price of a horizontal vs. vertical baler:

Horizontal Baler	\$31,900
Vertical Baler	\$13,700
Hopper	\$ 6,500