



Archuleta County
Solid Waste Department

Hub and Spoke Recycling Equipment and Implementation Program

Dave Sterner Coordinator

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Report prepared by Dave Sterner

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Work Plan

Deliverable	Due Date	Date Completed	Comments					
Purchase Skid Loader	7/1/2013	Aug-12	Due to administration changes approval to purchase was delayed					
Install 3 -phase power	7/15/2013	Jan-14	Difficulty developed with LaPlata staff illness creating delays in approval to begin construction					
Pour concrete pad	7/30/2013	May-14	contractor delayed work until after hard frost due to other obligations					
Order Baler, conveyer and wire	7/30/2013	Oct-13	Due to administration changes approval to purchase was delayed					
Design and print new pamphlets to educate the public on acceptable recyclables at the new facility	8/1/2013	Mar-14	delays in installation of baler delayed decisions on what we could process					
Prepare canopy for baler	8/15/2013	not completed	reorganization of location of the baler at facility to better fit needs will be completed this fall					
MOUs signed with partner agencies	8/16/2013	not completed	Due to administration changes formal MOUs have been delayed but agreements are in place					
Begin baling recyclables	8/20/2013	1/28/2014	Baling began the day the baler arrived and has continued from that date					
Quarterly goal: At least three outreach/educational programs presented to schools and civic groups	9/30/2013	9/30/2013	Groups presented to this quarter, SOS, Noon Rotary, and county extension group					
Host an e-waste event to showcase the new baler	10/19/2013	10/19/2013	E-waste event was held but baler had not arrived to showcase					
Complete work with high school students on signage	11/20/2013	not completed	Delays in installation of baler delayed decisions on what we could process before school was out of session. Signs will be created when school is back in session.					
Quarterly goal: At least three outreach/educational programs presented to schools and civic groups	12/31/2013	12/31/2013	Realtors association, PLPOA staff, Trash Haulers of Archuleta County					
Hire PT Recycling Coordinator	1/14/2014	not completed	Due to lack of revenue in 2013 because of delays the PT position is requested for 1/2015					

Quarterly goal: At least three outreach/educational programs presented to schools and civic groups	3/31/2013	3/31/2013	Asked to return to SOS for follow-up now that we have baler in operation, Chamber, Visitor center staff	
Quarterly goal: At least three outreach/educational programs presented to schools and civic groups	6/30/2014	6/30/2014	Morning Rotary, County employees, ongoing customers at transfer station and recycling facility	

III. Project summary

- 1) Prior to the implementation of this grant, mixed recyclables were loaded in a short sided semi-trailer and hauled to Aztec NM where the material was baled and delivered to Denver to be sorted. Having experience in recycling and marketing recycling material I felt we were going at the process all wrong consuming more fuel in transportation than the savings in recycling. With the implementation of the baler at our operation we are at the least able to densify the material to improve efficiency in transportation. Commodities are now sorted and sold to viable recycling markets. Cardboard was delivered to Durango where we had to pay \$120/roll-off to unload. Currently we are selling OCC at \$105/ton picked up on site after baling. The project allows us to sell the recyclables as a marketable product rather than to pay and transport the material miles.
- 2) Our project was delayed for several reasons but with perseverance we prevailed in substantial completion of the project within the time frame identified in the grant. We made use of the skid loader daily from the time it arrived to date. We have put over 300 hours on the machine and comments have been made "how did we ever get along without it" the skid loader was used to set up and develop the area for the baler. The baler arrived in late January again due to substantial delays. Needless to say due to weather conditions we were not able to place concrete prior to the baler's arrival. We temporarily placed the baler in a location we could put it to work immediately. The baler has been in operation almost daily densifying sorted material as it arrives. We have found the need to modify and change some of the storage and holding of sorted materials until the baler is able to change commodities.
- 3) The operation has had difficulties but has proven very successful in allowing us for the first time to sell cardboard rather than have to pay to get rid of it. In addition our Aluminum is now baled almost doubling the price we get for the community.
- 4) From the time the grant was received we have had 5 changes in county administrator, 4 changes in finance director, as well as other difficulties in acquiring approval to commence the project. I think the best explanation would be a quote from the acting county administrator the day the baler was finally arriving "so what do you plan to do with the baler". Delays in approvals created delays in pouring cement and delayed the production of the baler. We persevered and was finally able to get the baler installed temporary at the site in late January 2014.
- 5) We have attended several community meetings as well as worked with the local newspaper and radio station to promote our recycling operation. I have attended regional meetings of the San Juan recycling Association to promote what we are doing and encourage cooperation with other entities in the region on group marketing, and creative marketing of the materials we generate. Presentations to community groups are limited in Pagosa Springs. There are not very many groups due to a vacation type community.

6) I see the project expanding to include additional products being recycled as well as reaching out to more generators of the recyclables both local as well as more distant from our facility. I have promoted several unique ideas for the use of some of the recyclable material such as use of the glass as aggregate for our leachate collection system on our expansion of the landfill. This will save not only the fuel shipping the glass to a recycler, but reduce the fuel hauling in washed aggregate, and limits the need to sort and identify glass colors. I have strongly promoted a plastic post process that uses #2 - #7 plastic, eliminating considerable sorting and providing a viable market for #3-#7 plastics in local communities. What we are doing with our recyclables is a simple back to the basics recycling. No frills, just common sense that anyone can use, that I will share with anyone.

7) Financial summary

Description	Grant Funds Spent	Matching/in Kind Amo	Total Amount
Personal Services		1/2 project manager salary 26,000 plus 0 benefits	26000
Materials/Supplies/Equipment under \$5000	\$ 333.91	\$ 3,244.36	\$ 3,578.27
Equipment Purchases (over \$5000)	\$ 134,116.00	\$ 5,888.27	\$ 140,004.27
Operating cost	\$ -	\$ 264.00	\$ 264.00
Travel Cost			
Contractor/Subcontractors		\$ 5,364.81	\$ 5,364.81
Permitting Review Cost/Consultants	\$ -		
Other Direct Cost	\$ -		
Indirect Cost	\$ 1,344.49		\$ 1,344.49
Total project Cost:	\$ 135,794.40	\$ 17,361.44	\$ 153,155.84
Total Award	\$ 136,379.00		\$ 136,379.00

8) The program was definitely needed in our small community. With unique challenges of transportation and distance to markets the process of creating marketable products that are shipped directly to the end user makes more sense. The densification of the recyclable material has saved considerable fuel waste as well as paying others to process and take advantage of the revenue selling the recyclable material. By baling the material in Pagosa Springs and direct marketing the recyclable materials it keeps the labor, jobs, and revenue local and the revenue to fund the recycling local.

Grant Metrics

Date project fully operational:

February-14

Based on deliverables. Provide the month during which the grant project increased diversion/created jobs/increased number of customers.

Diversion Rates:

Choose one material per box. Only list materials diverted as a direct result of the grant project. Must be listed in tons. See tab labeled "Conversion Tables" if needed.

Material Diverted #1	Cardboard
Tons Diverted	
July-13	
August-13	
September-13	
October-13	
November-13	
December-13	
January-14	
February-14	x
March-14	x
April-14	x
May-14	x
June-14	x
Total	24.6

Other div. material:

Material Diverted #2	Aluminum / Steel cans
Tons Diverted	
July-13	x
August-13	x
September-13	x
October-13	x
November-13	x
December-13	x
January-14	x
February-14	x
March-14	x
April-14	x
May-14	x
June-14	x
Total	4.25

Other div. material:

Material Diverted #3	Newspaper/Office paper
Tons Diverted	
July-13	
August-13	
September-13	
October-13	
November-13	
December-13	
January-14	
February-14	x
March-14	x
April-14	x
May-14	x
June-14	x
Total	30 tons

Other div. material:

Material Diverted #4	Plastics (#1-7)
Tons Diverted	
July-13	
August-13	
September-13	
October-13	
November-13	
December-13	
January-14	
February-14	x
March-14	x
April-14	x
May-14	x
June-14	x
Total	2.5

Other div. material:

Material Diverted #5	Aluminum / Steel cans
Tons Diverted	
July-13	
August-13	
September-13	
October-13	
November-13	
December-13	
January-14	
February-14	x
March-14	x
April-14	x
May-14	x
June-14	x
Total	1.5

Other div. material:

Material Diverted #6	Glass
Tons Diverted	
July-13	
August-13	
September-13	
October-13	
November-13	
December-13	
January-14	x
February-14	x
March-14	x
April-14	x
May-14	x
June-14	x
Total	60

Other div. material:

Material Diverted #7	
Tons Diverted	
July-13	
August-13	
September-13	
October-13	
November-13	
December-13	
January-14	
February-14	
March-14	
April-14	
May-14	
June-14	
Total	0

Other div. material:

Material Diverted #8	
Tons Diverted	
July-13	
August-13	
September-13	
October-13	
November-13	
December-13	
January-14	
February-14	
March-14	
April-14	
May-14	
June-14	
Total	0

Other div. material:

End use of diverted materials:

Describe where materials are going (e.g. MRF, new products, reuse)

Cardboard was shipped to Lawton OK to be made into paperboard and returned to Gypsum CO to be used as sheetrock backing. Al cans were sold to a local scrap yard to be processed bac

Number of Permanent Jobs Created:

Include full-time & part time paid positions. 1 FTE = 40 Hours Per Week

1/2 FTE

Type of Permanent Job(s) Created:

Provide titles of jobs created

Recycling operator

Average Salaries of Jobs Created:

Average of all jobs created

Less than \$15,000

Average Monthly Customers for FY 2014:

July 1, 2013 - June 30, 2014

36/day

Average Monthly Customers for FY 2014:

Estimate or refer to customer list

	Avg. Monthly Amount
July-13	28
August-13	38
September-13	32
October-13	25
November-13	27
December-13	22
January-14	48
February-14	16
March-14	37
April-14	60
May-14	53
June-14	50
Ave. / FY 14	36.33333333

B. Community Leader Contact Information:

Cliff Lucero Chairman of Board of County Commissioners. 970-946-6803 clucero@archuletacounty.org

Michael Whiting County Commissioner 970-264-8300 mwhiting@archuletacounty.org

Steve Wadley, County Commissioner 970-264-8300 swadley@archuletacounty.org

C. Misc. signage and product pictures and brochure

1) Brochure distributed to citizens of Archuleta County

Archuleta County Solid Waste Department

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Rates Pagosa and Arboles Transfer Station

Bags Small—\$1.00

Medium \$2.00

Large \$3.00

Dumpsters \$5.00

\$16.25 / Cubic Yard

No contractors or large loads.

Recycling

\$2.00 per load residential

\$6.00 / CY commercial

Landfill

Bags \$2.00

Non-Compacted \$14/CY

Compacted \$15.50/CY

Appliances \$15.00



Pagosa Transfer Station
264-3311

2140 Co Rd 500

Hours of operation

Tuesday –Saturday

10 AM—5PM

Arboles Transfer Station

Hwy 151 883-2644

Hours of operation

Friday and Saturday

10AM-5PM

Landfill 264-5605

9179 County Rd 500

Hours of Operation

Monday—Friday

7AM—4 PM

Saturday 10—12 AM

Items not accepted at any of our facilities

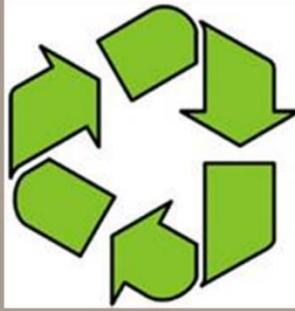
Freon containing appliances without documentation of proper disposal

Hazardous waste in any form

Friable Asbestos

Liquids

Tires



Recycling at the Pagosa Transfer Station

As you are probably aware, we have a new baler to process our recyclables at the Archuleta County Recycling Center. Therefore we will need to change some of the procedures how we receive recyclables. We will be baling individual products so we will need them separated into identifiable categories.

Plastics - please remove all lids and remove contents, no bags

#1 plastic usually identified as pop or water bottles, Clear, may not have a number

#2 plastic usually identified as milk or soap jugs.

#3-7 plastic this would include all plastic containers not identified above.

Paper -

Newspaper (advertising inserts OK)

Other paper products such as press board (cereal boxes, shoe boxes, etc.), office paper, packing paper, magazines, phone books

Tin cans - Please remove all contents and rinse cans.

Aluminum Cans – This does not include foil pans or aluminum foil. Aluminum cans only. The cans are sold to provide funding for the Environmental Awareness Scholarship. We will handle these as we have been.

Glass - Bottle glass only color makes no difference. Remove caps, corks, lids. No window glass. This material will be used as aggregate in our leachate collection system during our next cell expansion at the landfill rather than importing washed screened gravel.

Corrugated cardboard will be placed directly into the baler or stockpiled near the hopper when the baler is in use baling another commodity.

2) Picture in newspaper the day the baler arrived

Elizabeth Blan
Blan, 39, of Farm... pleaded guilty to... murder (heat of... count of violation... er plea stems from... 011 death of Anthony... along County Road

will be served concurrently with the 10 years.
Despite the plea stipulating to a sentence, Blan must still go through a sentencing hearing, which is scheduled for March 18.
The plea deal follows two mistrials in the case in which the District Attorney's Office sought a second-degree murder conviction.
The most recent mistrial was called in mid October after a hung jury failed to return a verdict.

■ See Murder A8



Mary Jo Coulehan, right, presents the Citizen of the Year award to philanthropists Jack and Claudia Rosenbaum. The Rosenbaums were instrumental in starting the expansion for the Pagosa Mountain Hospital and have demonstrated generous support of numerous organizations including the Humane Society, the Americana Project, 4-H, Red Ryder Rodeo and Festival of Trees, just to name a few. They have also served on several boards including Western Heritage and FolkWest.

SUN photo/Randi Pierce

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SUN photo/
Randi Pierce

County personnel next to the county's new baler that was delivered to the transfer station on Trujillo Road Monday and installed Tuesday. From left are Jim Brinkmann, commissioner Clifford Lucero, Lester Rivas, solid waste administrator Benjett Henderson. The baler was purchased through grant funding and is expected to help the county to make a profit on its recycling, allowing the county to bale and sell recyclables.

Three patie trans to M PSMC to grow

By Dana Hay
Staff Writer

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■ See Patient

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Bayfield to Pagosa: Dog returns home after 40-mile journey

By Melanie Brubaker Mazur
Pine River Times editor

Marley is one well-traveled collie. She got out of her downtown Bayfield yard on Thursday, Jan. 9 when a gate didn't shut properly.
She's always been skittish of other people, and owner Missy Sarnow thinks Marley just got flustered and ran north across U.S. 160, then past Dove Ranch and Bayfield Cemetery. Sarnow, her husband Andre, and friends immediately got in their cars and started searching for Marley. Responding to flyers and Sarnow's posts on Facebook, people called and said they had seen the dog, but they

couldn't get the shy pooch to come close enough to catch her.
Then the calls started coming from Bear Creek and Forest Lakes, even further north on La Plata County Road 501.
Then there had been no calls for the past week or so, and Sarnow said she feared for the worst. She told their daughters that Marley might not be coming home.
On Tuesday, Jan. 21, she got a surprising call. Rancher Dave Guilliams of Pagosa Springs had seen a skinny collie near his front porch, and he lured her into the house with bologna.
Marley has a nametag, and he called Sarnow. Guilliams lives near

Williams Reservoir, 18 miles north of Pagosa Springs. He estimates she traveled about 30 miles from Forest Lakes to his ranch, through some pretty hard country and freezing cold at night.
"She is skin and bones," Sarnow said, but other than that, the three-year-old dog is healthy. Marley probably survived lows in the teens at night because of her thick coat, Sarnow guessed.
Guilliams told Sarnow he never bothered getting nametags for the cattle dogs on his ranch before, but he has become a believer and is getting them now.

■ See Journey A8



Photo courtesy

Marley returned home after being missing having traveled from Bayfield to Willow north of Pagosa Springs.

3) Picture of the first load of cardboard headed to Lawton OK 49,200 pounds



4) Signage at Recycling Center

