

Boulder County

Community Outreach Program 2009

FORM C

Project Summary & Narrative

Project Name: Roofs To Roads

Project Summary

Briefly summarize (2-3 sentences) the specific purpose for which you are requesting funds.

We are requesting funds for an educational project for Boulder County roofers that would contribute towards zero waste. Roofers will be educated in the environmental and economic benefits of bringing asphalt shingles to a shingle processing plant rather than the landfill.

Project Narrative

Please provide responses to the following items relative to your proposed project. Use no more than two pages, single-spaced, double-sided (two sheets of paper, four sides total) for your proposal narrative, with the sections sequentially numbered and titled as indicated below.

1. Agency or Business Overview

Briefly describe the purpose and primary activities of your organization or business, your geographic area of operations and the primary source of financial support for your organization.

3-R Roofing, LLC, has been in business in Boulder county for 19 years. A member of Boulder Green Building Guild, 3-R Roofing is committed to sustainable roofing solutions, including photovoltaic and other roof-mounted renewable energy choices. 3-R Roofing's financial base is through sale of services.

2. Statement of Need

Identify the issue or need your project seeks to address.

Our assessment of roofing waste indicates that as much as 10,000 tons of asphalt shingles are being landfilled every year in Boulder County. This material, when it contains no asbestos and is debris-free, can be ground and mixed in a 5% ratio with asphalt for paving roads. Boulder County roofers are currently spending \$150-\$200 per load to landfill this valuable material. We seek to educate roofers in the environmental and economic importance of bringing shingles to the recycling facility instead.

Asphalt shingles are a significant component of landfills. Construction and Demolition facilities are finding that 50% of the material they receive are shingles. These shingles also create difficulties in the landfills; they create layers or caps that trap methane gas bubbles, and they slow down and prevent decomposition of organic material in the landfill. And when recycled asphalt shingles are used with virgin asphalt in a 5%/95% ratio, assuming 1 mile of a 2-lane road, 1" of paving material, the production of 2.7 million pounds of greenhouse gases are

prevented. This mix of recycled shingles with virgin asphalt also results in cost savings to paving contractors and ultimately to the municipalities.

Fundamentally, we seek to address two issues: the need for culture and behavior change among roofers, such that material currently landfilled is brought to a processing plant, and the need to divert this valuable resource from the landfill.

3. Project Description

- a) Describe the project for which funds are requested, including program design, relevant tasks and activities.

Project funds are requested for an educational program for Boulder County roofers, encouraging and motivating them how to bring asbestos-and debris-free asphalt shingles to a shingle processing plant rather than the landfill.

The program is designed to create a change in roofing culture such that roofers bring asphalt shingles to processing plant rather than to the landfill, primarily through three training sessions for Boulder County roofers. Prior to the first training, we will evaluate our understanding of the obstacles to roofers changing their behavior, and will ensure we have addressed those obstacles.

Tasks and activities include:

- *Prepare for training and providing training classes*
- *Implementing asbestos inspection and analysis*
- *Providing a list of approved roofers to asphalt specialties for proper tracking and stockpiling of shingles*
- *Conducting Recycled Asphalt Shingle advisory board meetings*
- *Informing public about the program and about the roofing contractors who are participating*
- *Managing the asbestos inspection and analysis process, and responding to any concerns and issues that arise*
- *Overseeing the process of transporting shingles to the processing plant, and working with any concerns or issues*
- *Developing a report summarizing the results of this program, including data on asbestos content of shingles*
- *Providing reduced asbestos analysis for roofers who complete the training*
- *Providing reduced tipping fees at the shingle processing plant for roofers who complete the training, with their asbestos analysis report verifying the shingles are asbestos-free.*

- b) Indicate program goals, target audience and outcome objectives.

Program goals: 50 trained roofers are leading behavioral and cultural change in the roofing community, and 5,000 tons of asbestos-free and debris-free shingles are brought to the shingle processing plant

Target audience: Boulder County roofing contractors, local and state regulatory agencies.

Outcome objectives: Roofers understand the importance of recycling asphalt shingles, and are easily able to do so. Regulators have a greater understanding of how to effectively mandate asphalt shingle recycling and have access to data that enables wise decision-making concerning managing potential asbestos content when recycling shingles.

- c) List any applicable permits, licenses or insurance coverage that must be secured for this project.

No special permits, licenses or insurance are required for this project.

d) Will this project move forward if the County does not fund it?

We are deeply committed to recycling asphalt shingles, and we see the processes involved in recycling shingles from roofing tear-offs is starting to happen in other states (e.g. Missouri, Oklahoma, Minnesota). Seeing this trend, we believe this project will move forward without County support, but we anticipate that it may develop more slowly than it would without County support; that it may develop without sufficient attention and testing of asbestos issue, which could negatively impact the future of recycling asphalt shingles in Colorado. Every ton of asphalt shingles in the landfill is a waste of this valuable resource.

e) Could you execute this project if it is not fully funded?

We are willing to implement part of the project rather than the whole. We'd like to implement the larger, systematic project, as we believe that will be most influential in change in roofers' behavior and culture. We want to get this shift started. However, we are definitely willing to work to maximize the impact of the funds the County is able to direct toward this project.

4. Project Timeline

Present an implementation schedule for the project. Indicate probable starting and ending dates and significant milestones.

Start: January, 2009

First training session for roofers: February 2009

Asbestos inspection and analysis begins

Roofers start bringing debris-free and asbestos-free waste to the shingle processing facility

Roofers participate in Roofs to Roads quarterly advisory meeting

Second training session for roofers

Ongoing project management and trouble-shooting

Work with Boulder County, City of Boulder, Colorado Roofers Association to expand incentives and requirements for roofers and homeowners who recycle asphalt shingles

Third training session for roofers

Calculate tons of shingles diverted from landfill

Evaluate asbestos content of asphalt shingles discovered through this project

End: December, 2009

5. Project Evaluation and Accountability

Indicate how program performance will be monitored and measured and how you will determine the success of the project.

There are several ways we will evaluate the performance and effectiveness of our project. Quantifiable results include roofer attendance at training sessions. We hope to attract at least 15 roofers to each training session. Success will also be determined by tons of shingles brought to the processing plant- we hope to divert 5,000 tons, or more, and by the ease of the asbestos inspection and analysis process.

6. Cost Effectiveness

Describe why the project is an efficient use of public funds and resources.

The public will benefit when asphalt shingles are recycled. Significant greenhouse gas emissions will be prevented, and ultimately County road paving projects will be less costly, as RAS is incorporated into asphalt pavement. The public will also benefit from greater awareness and understanding of appropriate management of asbestos-containing shingles.

7. Cooperative Efforts

Describe any cooperative or collaborative efforts with other organizations functioning in the target area. List other project participants and indicate how resources are shared and service duplication avoided.

WorkLife Consulting, LLC, will be providing training for roofers, facilitating the asbestos inspection and analysis process, and supporting roofer participation in the Advisory Board meetings. Duplication of effort will be avoided by careful planning and discrete areas of activity.

Asphalt Specialties will cooperate with this project, storing the asbestos-free shingles separately, and tracking the quantities of shingles delivered.

8. Long Term Self Sufficiency (for continuing or on-going projects)

Discuss how the project will become financially viable and self-sustaining after the expiration of the current Community Outreach Program funding. How will future expenses be met? Indicate whether you anticipate requesting future support for this project from the County.

We anticipate significant, sustained behavior and culture change following the input of project effort and County support. Once roofing contractors are accustomed to bringing shingles to the processing facility, understand the environmental importance and shifting regulatory environment, we expect they will continue this behavior. Additionally, during the project, we will continue to work with the shingle processing plant, local regulators, and other stakeholders to educate homeowners, and provide ongoing motivational and promotional incentives for roofers, such as a Green Points program.

During the project, we will explore a future role for a social enterprise entity, Roofs to Roads, that will charge a fee per ton to create a seamless operation, from roofing tear-off to clean RAS transported to the shingle processing facility.

We do not anticipate needing any future support for this project from the County.

Boulder County

Community Outreach Program 2009

FORM D

Project Budget

Project Name: Roofs to Roads

Funding Request \$ 10,000 Total Project Budget \$ 15,000 In-kind/Matching \$ 5,000

Total Agency/Organization Budget: current FY \$ 700,000 Prior FY \$ 600,000

Request is 67 % of project budget, and 1 % of organizational budget.

Organization operates on a: calendar year fiscal year. FY dates: _____

<i>Project Expenses</i>				
Personnel Expenses		Funds Requested	In-kind/ Matching Funds	Total Project Budget
Salaries and Wages				
Title	# of hours x hourly wage			
Project Manager	96 hours/year@\$30/hr	\$1,440	\$1,440	\$2,880
Project Administration	96 hours/year@\$30/hr	\$1,440	\$1,440	\$2,880
		\$	\$	\$
Employee Benefits (maximum of 15% of hourly wages)		\$0	\$0	\$0
Consultants & Contract Services (List in space below)				
Roofer training seminars		\$1,120	\$ 500	\$1,620
		\$	\$	\$
Total Personnel Expenses		\$4,000	\$3,380	\$7,380
Non-personnel expenses may include: Equipment (rental, lease, purchase); Supplies & Materials; Staff Travel/Meetings; and/or Permit Fees/Licenses. Show in detail how you arrived at the funding request for each line item (i.e. printing costs = 1,200 brochures x .75 each= \$900).				
Non-Personnel Expenses		Funds Requested	In-kind/ Matching Funds	Total Project Budget
Reduced asbestos analytical fees for roofing contractors		\$3,500	\$ 400	\$3,900
Reduced tipping fees for roofers		\$2,000	\$1,000	\$3,000
Training and program materials		\$ 500	\$ 250	\$ 750
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
Total Non-Personnel Expenses		\$6,000	\$1,650	\$7,650
Total Project Expenses		\$10,000	\$5,030	\$15,030

FORM D - continued

Project Income

This will assist you with filling out the In-kind /Matching Funds section of the project budget if the funds requested under this proposal do not constitute full support for your project. *Please itemize other sources of income.* Indicate whether funds are committed or anticipated.

For example: if you were holding a compost bin sale to generate more money for the program and expected to earn \$500, under Earned Income you would put \$500 in the Amount column and the Anticipated column. Another example: if you already received an additional \$12,000 grant to fund your program, under Grants and Contracts you would put \$12,000 in Amount and Committed.

<i>Project Income</i>	<i>Amount</i>	<i>Committed</i>	<i>Anticipated</i>
Earned Income (fees, sales, interest, contracts, etc.)			
	\$		
	\$		
Financial Contributions (groups, individuals, events)			
	\$		
	\$		
Grants and Contracts			
	\$		
	\$		
Other			
	\$		
Total Project Income	\$		

In-kind Contributions

In-kind Contributions are encouraged. Please list in-kind and other non-cash contributions (volunteer services, materials, equipment, etc.) below. Please do not show them as income.

Budget prepared by: _____ Phone: _____