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# **Recycling and Illegal Dumping Grant Application Form**

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New Mexico  
Environment Department  
Solid Waste Bureau &  
Recycling and Illegal  
Dumping Alliance

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2016-2017

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## Definitions

**"Abatement"** means to reduce in amount, degree or intensity or to eliminate.

**"Cooperative association"** means a refuse disposal district created pursuant to the Refuse Disposal Act, a sanitation district created pursuant to the Water and Sanitation District Act, a special district created pursuant to the Special District Procedures Act or other associations created pursuant to the Joint Powers Agreements Act or the Solid Waste Authority Act. (as defined by the RAID Act)

**"Illegal dumping"** means the disposal of waste in an unpermitted area. It is also referred to as "open dumping," "fly dumping," and "midnight dumping," because materials are often dumped in open areas, from vehicles along roadsides, and late at night. Illegally dumped wastes are primarily non-hazardous materials that are dumped to avoid either disposal fees or the time and effort required for proper disposal. (as defined by the US Environmental Protection Agency)

**"In-kind"** means non-monetary contributions from the participating organization, e.g., labor, staff salaries, equipment, fuel, materials, recycling costs associated with special events.

**"Passenger tire equivalent"** or **"PTE"** is a conversion factor for changing numbers of scrap tires to weight; for passenger and light truck tires, the total weight of scrap tires, in pounds, divided by 22.5 pounds (the average weight of passenger and light weight tires) produces the passenger tire equivalent.

**"Processing"** means techniques to change physical, chemical or biological character or composition but does not include composting, transformation or open burning.

**"Professional services"** means the services of architects, archeologists, engineers, surveyors, landscape architects, medical arts practitioners, scientists, management and systems analysts, certified public accountants, registered public accountants, lawyers, psychologists, planners, researchers, construction managers and other persons or businesses providing similar professional services, which may be designated as such by a determination issued by the state purchasing agent or a central purchasing office.

**"Recycling"** means any process by which recyclable materials are collected, separated or processed, reused or returned to use in the form of raw materials or products. (as defined by the RAID Act)

**"Signatory Authority"** means any officer or representative vested (explicitly, implicitly, or through conduct) with the powers to commit the authorizing organization to a binding agreement.

**"Scrap tire"** means a tire, including a baled tire, which is no longer suitable for its originally intended purpose because of wear, damage, defect or obsolescence.

**"Tire recycling"** means a process in which scrap tires are collected, stored, separated or reprocessed for reuse as a different product or shredded into a form suitable for use in rubberized asphalt or as raw material for the manufacture of other products.

**"Vector"** means any agent capable of transmitting a disease from one individual or organism to another. Vectors include, but are not limited to, mosquitoes, flies and other insects, rodents, and vermin.

## Application Instructions

1. Contact the New Mexico Environment Department (NMED) Solid Waste Bureau Recycling Coordinator, Neal Denton, at (505) 827-2653 or neal.denton@state.nm.us to discuss your project before beginning application.
2. Review application to determine preliminary planning requirements such as establishing partnerships, reviewing accounting methods, plotting coordinates of dumpsites, etc.
3. Read all of the following sections and the instructions for each section.
4. Complete the entire application. Applications must be submitted on this official form developed by the NMED Solid Waste Bureau. Answer all questions, and provide the requested attachments. If a question is not applicable, note "N/A" in the appropriate location. **Do not leave any question blank.**
5. Submit the complete, signed application to the NMED Solid Waste Bureau via e-mail, fax, hand-delivery, or mail by 5:00PM on April 1, 2016. Applications received after this time will not be considered regardless of post-mark date or e-mail and fax sending date or time. Applications submitted by e-mail must be in the NMED Solid Waste Bureau Recycling Coordinator's inbox by 5:00PM. It is the responsibility of the applicant to ensure NMED receives the application by the deadline regardless of any delays caused by unexpected internet or computer-related issues with the applicant or the NMED Solid Waste Bureau. Applicants are strongly encouraged to allow for enough time before the deadline in case of any such issues. **THERE WILL BE NO EXCEPTIONS.**

**E-mail:**

neal.denton@state.nm.us

**Fax:**

(505) 827-2902

**Mail:**

U.S. Postal Service

New Mexico Environment Department  
Solid Waste Bureau  
Attn: Neal Denton  
P.O. Box 5469  
Santa Fe, NM 87502

UPS & FedEx

New Mexico Environment Department  
Solid Waste Bureau  
Attn: Neal Denton  
1190 S. St. Francis Dr. #N2150  
Santa Fe, NM 87505

**In person:**

New Mexico Environment Department  
Solid Waste Bureau  
Attn: Neal Denton  
Harold Runnels Building  
1190 S. St. Francis Dr. #N2150  
Santa Fe, NM 87505

## Award Process

In accordance with the New Mexico 2005 Recycling and Illegal Dumping (RAID) Act, RAID grant applications are reviewed by the RAID Alliance comprised of one member from each of the following:

Agricultural Producer	Retailer
Industry Waste Generator	Soil and Water Conservation District
Local Government	Solid Waste Authority
Nonprofit Organization	Tribal Government
Public at Large	Waste Management Company
Recycling Company	

The RAID Alliance sets yearly priorities, which can be seen in this document. Projects consistent with these priorities are significantly more likely to be funded.

NMED will initially screen applications for eligibility, completeness, and adequacy of technical and financial information. The applications are then provided to the RAID Alliance for review. The RAID Alliance scores applications in accordance with the criteria provided in these instructions. The discussion regarding awarding applications starts with the highest scoring application and proceeds from highest to lowest scoring. A higher score does not mean the funding will be awarded, but it increases the chances that funding is available when it is discussed. You may be contacted by a member of the RAID Alliance or the NMED Recycling Coordinator to discuss your application.

The RAID Alliance will meet on May 4, 2016 in the Rio Grande Room of the NMED District 1 Office, 121 Tijeras Ave., Albuquerque, 87102 to discuss applications. Applicants and the public are welcome to attend. After discussing an application, a RAID Alliance member will motion to fully fund, partially fund, or not to fund an application. If the motion receives a second, the RAID Alliance votes on the motion. The majority vote stands as the decision of the RAID Alliance.

**NOTE: You may be offered a partial award of the requested funding. You will have an opportunity to reject the offer if the project is impossible without being fully funded. You will not have an opportunity to contest the offer.**

These recommendations are provided to the NMED Solid Waste Bureau, which honors these recommendations in most cases and will send the applicant a letter either offering a full or partial award or indicating the project will not be funded. The applicant will be asked to respond via letter indicating if you accept the grant offer or not.

**MANDATORY GRANT ADMINISTRATION TRAINING:** In order to receive the grant, the person who will be managing the grant and the person who will be submitting requests for reimbursement must attend a mandatory grant administration training on May 25, 2016 in the Rio Grande Room of the NMED District 1 Office, 121 Tijeras Ave., Albuquerque, 87102. **Failure to attend this training will result in a revocation of the grant offer.**

## Eligibility

### Eligible applicants:

Only one of the following entities may apply for a grant. Any applications submitted by ineligible entities will not be reviewed by the RAID Alliance. Ineligible entities are encouraged to partner with eligible entities.

- Municipalities
- Counties
- Tribal Nations, Pueblos, and Tribes
- Land grant communities
- Cooperative associations (as defined in the Recycling and Illegal Dumping Act)
- Solid waste authorities

### Eligible expenses:

Please contact the NMED Recycling Coordinator to discuss how your proposed project may fit within eligible expenses.

- Offsetting the cost of scrap tire collection and recycling
- Establishing recycling facilities
- Purchasing equipment for recycling and scrap tire management
- Performing marketing regarding recycling and scrap tire management
- Purchasing products produced by a recycling facility
- Providing educational outreach regarding scrap tire management, recycling, and illegal dumping
- Developing recycling infrastructure
- Abating illegal dumpsites
- Contracting with vendors to promote recycling

### Ineligible expenses (may constitute in-kind contributions in support of the project):

- Operating costs associated with on-going waste management or compliance activities
- Tipping fees for illegally dumped material or recyclables (tire tipping fees are eligible)
- Remediation costs for which an organization is already liable. If you have been notified by a regulatory agency that you are in violation of regulations pertaining to the material for which you are submitting an application, you may not apply for a RAID Grant.
- Recycling programs or equipment that will not assist in providing access to recycling
- Preparation of the grant application
- Internal expenses such as staff salaries or internal copying/printing services
- Redundant equipment
- Recycling processing which utilizes less than 95% of recyclable materials from sources in New Mexico
- The purchase of used equipment without a warranty or service agreement
- Litter clean-up
- Hand fed chippers for green waste
- The tear-down and removal of structures unless applicant has obtained legal ownership of the property through the condemnation process
- The tear-down and removal of mobile homes, including those considered permanent, regardless of condemnation
- Dumpsite/tire abatement at private businesses that have received money to manage their waste

## Funding

\$1,000,000 is available for the 2016-2017 grant cycle. The RAID Act requires that two thirds is applied to scrap tire projects, and one third is applied to other projects. Applicants are encouraged to apply for significant projects that will expend substantial funding. NMED seeks to award fewer grants that individually accomplish more than a multitude of smaller projects. However, applicants should not be discouraged from applying for smaller projects that are in need.

**This is a reimbursement grant program.** The grantee must be able to incur the costs until NMED issues the reimbursement. Land grant communities that have no financial structure (checking account, fees, etc.) are encouraged to partner with the county in which they are located. NMED will withhold reimbursement until it has received deliverables and documented compliance with procurement regulations.

All purchases shall comply with the New Mexico Procurement Code, NMSA 1978, Sections 13-1-28 to -199. As allowed under Section 13-1-98 (K), communities that have a home rule charter may follow their local procurement policy, and as allowed under Section 13-1-98(HH), Indian nations, tribes or pueblos may follow their procurement policy should they have one.

Grant expenses will be reimbursed after submittal of the reimbursement form provided by NMED along with a proof of payment and invoice. Final payment will be made after the submittal of the Project Completion Survey provided by NMED and a site visit. Photographs may be submitted in lieu of cases where a site visit is impractical. **All funding must be expended by June 30, 2017.**

Project Type	Total Funds Available (FY17)
Scrap Tires	\$666,667
Illegal Dumping and Recycling	\$333,333
<b>Total</b>	<b>\$1,000,000</b>

## Grant Submittal Checklist

- Signed Application
- Photographs (dumpsites only)
- Locally-adopted resolutions, ordinances, or plans, if applicable
- Letters of Support or memoranda of understanding (MOUs)
- Three quotes per piece of equipment or supplies, if applicable
- One estimate for professional services, if applicable

## Priorities

Priorities are not listed in order of preference.

### Scrap Tire:

- Abatement of illegal tire dumps. Applications for tire dump abatements should include funding for a mechanism for non-recurrence, such as signage, fencing, law enforcement surveillance, etc. Multi-year phased projects for large abatements receive special consideration. Dumpsites in water bodies are a priority for cleanup.
- Tire amnesty days
- Educational outreach
- Rubberized asphalt projects

### Illegal Dumping:

- Abatement of illegal dumpsites close to water bodies and places of significant cultural value
- Projects utilizing site appropriate physical deterrence such as fencing, earth work, barricades, signage, etc., to reduce, prevent, or eliminate illegal dumping in areas of historical use
- Initiating educational outreach campaigns and prevention programs by identifying local resources and forming partnerships to help change the cultural mindset with innovative solutions
- Hiring contractors to conduct trainings and facilitate discussions for judicial staff, law enforcement, tribal leaders, and others to help establish and expand enforcement programs
- Purchases of equipment that supports enforcement efforts (ex. cameras)

### Recycling:

- Purchase of recycled organic products (mulch, compost) for erosion control, landscaping, and agricultural projects
- Projects that promote organics recycling (ex. grinding equipment, screens for established programs, private/public partnerships)
- Food scrap management (ex. collection containers, collection equipment, lift gates)
- Educating the public on innovative uses of hard to recycle materials (ex. gypsum as soil amendment, or asphalt singles as erosion control, crushed glass as basecourse, etc) to expand acceptance of recycling
- Innovative solutions and partnerships for sustainable diversion programs
- Educational and outreach projects that will increase access to and acceptance of recycling (ex. pilot collection projects in schools, businesses, curbside collection, and pay-as-you-throw)
- Research that produces recycling infrastructure or promotes recycling (ex. research on using rubberized asphalt, research that creates a public document)

## Scoring Criteria

### Dumpsite Scoring Criteria:

Criteria	Maximum Points
Number of tires and amount/type of other waste	45
Population within 5 miles	45
Schools, hospitals, businesses and industry within 5 miles	45
Distance to waterways	45
Fire hazard (proximity to fire lines/sources of ignition)	45
Dumpsite still active	45
Consistency with priorities	35
Cost/benefit	30
Prevention tactics	30
Need for grant funding to execute project	30
New applicant	25
Budget	30
Full Cost Accounting	30
Adequate/accurate information provided	20
<b>Total</b>	<b>500</b>

### Non-Dumpsite Scoring Criteria:

Criteria	Maximum Points
Need	55
Urgency	55
Amount of local funding available (less=more points)	55
Population served	55
Alternative solutions available	55
Consistency with surrounding land use	55
Consistency with priorities	35
Cost/benefit	30
Budget	30
Full Cost Accounting	30
New applicant	25
Adequate/accurate information provided	20
<b>Total</b>	<b>500</b>



## Signatory Authority

Enter the information for the individual who may legally execute contracts on behalf of the applicant. This person is most likely a mayor; city or county manager; chairman of a county commission; director of a solid waste authority; governor of a pueblo, tribe or nation; or chairman/ executive director of a cooperative association.

<b>Name</b>		<b>Position</b>	
<b>Mailing Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Email</b>		<b>Phone</b>	

## Purchasing/Procurement Officer

Enter the information for the individual who will be personally submitting requests for reimbursement. With the exception of tribal entities, this person should be a Certified Procurement Officer.

<b>Name</b>		<b>Position</b>	
<b>Mailing Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Email</b>		<b>Phone</b>	

## Project Description

Briefly describe the proposed project. You will have an opportunity to provide more detail with the following questions.

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## Project Goals

List the goals of this project. Be brief. You do not need to list ten goals. The quality of the project will be judged by the merit of the goals, not the number of goals. If you need to list more goals, please attach them to the application.

#	Goal
<i>1</i>	
<i>2</i>	
<i>3</i>	
<i>4</i>	
<i>5</i>	
<i>6</i>	
<i>7</i>	
<i>8</i>	
<i>9</i>	
<i>10</i>	

## Need and Urgency

Explain why this project is necessary. Discuss what local funding is available and why grant funding is necessary. If execution of the project is urgent, please explain why.

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## Prior and Existing Efforts

Describe any prior or existing efforts to carry out this project. Describe related programs, activities, and services in your community. Explain what your organization's role is in those efforts and how this project expands upon or complements existing services.

## Alternative Solutions Available

Describe alternative ways this project could be executed. Do not respond that there are no alternate solutions.

## Surrounding Land Use (Non-Dumpsites Only)

If developing a facility or installing equipment at an existing facility, please describe the surrounding land use. Otherwise, write "N/A" for "not applicable."



## Dumpsite/Stockpile Information

**Attach multiple copies of this section if more than one clean-up is proposed.**

<p>How many sites are you proposing to clean up?  <i>An abatement form MUST be completed for each site or stockpile.</i></p>	
<p>★ Attach at least one and no more than three photos of each site.</p>	
<p>Name of site</p>	
<p>Location and/or physical address  <i>(Provide coordinates if possible)</i></p>	
<p>Name of property owner <i>(If known)</i></p>	
<p>Estimated number of scrap tires or cubic yards of MSW</p>	
<p>Length of time the dumpsite or stockpile has been in existence</p>	
<p>Population within a five-mile radius of the site</p>	
<p>Number of schools, hospitals, businesses, and industries within a five-mile radius of the site</p>	
<p>Distance to the nearest river, stream, and/or arroyo</p>	
<p>What fire hazard or vector problems does the site pose?  <i>(Power lines or other ignition sources nearby)</i></p>	
<p>Is the site active, and if so, is it still growing?</p>	
<p>Is there pending litigation or other contingent liabilities that have a bearing on this project or application? If so, please attach a copy to this application.</p>	
<p>Has a Notice of Violation or other enforcement action been taken? If so, please attach a copy to this application.</p>	
<p>If your community is awarded a RAID grant to abate this site, will you prepare a resolution in accordance with section 3-18-5 NMSA 1978 authorizing your community to abate the site and to file a lien against the property for the abatement cost if the owner, occupant or agent in charge of the property fails to abate the site within timeframe of grant cycle?</p>	

## Long-Term Planning

Please explain what has been done and/or what will be done to ensure the long term success of this project. Attach any ordinances, resolutions or plans that have been formally adopted by your entity.

1. Outline specific goals or targets of your community/entity in regards to recycling, waste diversion, illegal dumping prevention and abatement, or scrap tire management (whether these goals have been formally adopted or not). Describe how your community/entity plans to achieve those goals.
2. For dumpsites, explain what will be done to prevent them from continuing to be used as dumpsites.
3. For other projects, explain the funding strategy, educational outreach activities, staffing, etc. Do existing fees cover solid waste and recycling program costs? Are there plans to begin charging fees to cover solid waste and recycling program costs?
4. For recycling projects: How has the applicant developed a recycling program budget that ensures all program costs are included (education/outreach, collection services, transportation, equipment, staffing, etc.) so that the program is viable and successful into the future?
5. For tire projects, discuss how your entity ensures the sustainability of the tire management program (ex. tire recycling/disposal fees, ensuring that those monies are used for the tire management program)

## Full Cost Accounting

What is your cost for managing solid waste per ton?

\$ /ton

Please explain how these expenses are incurred (i.e. hauling, tip fees, managing a landfill, etc.).

How much funding do you have for managing solid waste?

Annual operating budget: \$

MSW managed: *Divided by* tons/year  
*Equals*  
 \$ /ton

If your cost per ton exceeds your funding per ton, do you have plans to change this? If so, what are they? If not, why not? If your entity does not manage solid waste, write "N/A."

Does all of your funding come from a general fund or equivalent? The term general fund refers to the expenditures and revenues associated with the delivery of services funded with property taxes, income taxes, charges & fees, state shared taxes, etc.

Yes

No

Does all of your funding come from an enterprise fund or equivalent? The term enterprise fund refers to the expenditures and revenues associated with the delivery of services funded on a user charge basis, similar to the operation of a commercial enterprise.

Yes

No

Explain how your entity establishes funding for future needs such as land acquisition, permitting, building construction/modification, site closure, post-closure care, etc. If your entity does not manage solid waste, write "N/A."

**Tire Projects Only:**

Cost charged for tires at landfill	\$ /ton
Tons of tires managed per year	tons/year

Do the fees collected for tires go into a tire management fund or a general fund?

**Recycled Content Source (Recycling Projects Only)**

Do 95% or more of the materials in this project come from sources in New Mexico? (This is a requirement only if the proposal is for processing recyclables.)

Yes
  No

**Mandatory Training**

Do you understand that the individual managing the grant and the person who will be submitting requests for reimbursement must attend a mandatory grant administration training on May 25, 2016 in the Rio Grande Room of the NMED District 1 Office, 121 Tijeras Ave., Albuquerque, 87102 and that failure to attend this training will result in revocation of the grant offer?

Yes
  No

## Partnerships

Please list all partners involved in this project and what their roles will be during the project and after the project. These should be entities outside of your organization, not departments within your organization. Attach Letters of Support from partner entities as well as any memoranda of understanding (MOUs) between partners.

<b>Partner</b>	<b>Role</b>

## Budget

Complete the fields below to show the budget for this project. **Itemize each expense.** In-kind and cash match contributions from the applicant are not required, but they are appreciated and reflect a general buy-in. Administrative expenses (staff salaries or any internal cost) are not eligible, but should be provided as an in-kind contribution.

Equipment, supplies, and services proposed for purchase **MUST** be documented with **three** quotations unless the item will be purchased off a price agreement, in which case the price agreement must be provided along with a quotation from that vendor. Cases where quotations are not practical such as with fuel purchases will be acceptable. Professional services such as engineering or consulting proposed for purchase **MUST** be documented with at least one estimate. Failure to provide supporting documentation in this manner will result in **disqualification** of the application.

Goal #	Expense	Grant Funds Requested	Applicant contribution		Total	Quotes Included as Attachment #
			In-kind	Cash		
<b>Totals</b>						

## Cost/Benefit of Project (Tire Projects Only)

1. Divide the grant funds requested by the number of passenger tire equivalents (PTE) that are to be abated / transported / processed / used in the project.
2. For purchase of ground or crumb rubber, assume that each PTE produces 15 pounds of product.
3. For processing equipment purchases only, divide the grant funds requested by the number of PTEs processed in 5 years. Although all reasonable cost benefits are considered, applicants should attempt to achieve as low a cost per tire as possible.

★ The answer to this should be a number. Show your calculations. If this is not a tire project, enter "N/A".

Calculations:

Cost per tire:

## Litigation, Liabilities, and Land Information

Are there pending litigations or other contingent liabilities that have a bearing on this project or application (i.e. need Army Corps of Engineer's approval, need other NMED or other agency permits to proceed)?

<input type="checkbox"/> Yes (Please explain below)	<input type="checkbox"/> No

Is the project on State, BLM or other lands not owned by the applicant?

<input type="checkbox"/> Yes (Please explain below)	<input type="checkbox"/> No

Have all parcels of land and rights-of-way necessary for completion of this project been purchased, leased, or otherwise acquired by the applicant?

<input type="checkbox"/> Yes	<input type="checkbox"/> No (Please explain below)

Has ownership of the property been verified?

<input type="checkbox"/> Yes	<input type="checkbox"/> No (Please explain below)

## Certifications

### Signatory Authority

I, the undersigned, do hereby certify that I am a signatory authority of the applicant. (Signatory Authority must be a mayor; city or county manager; chairman of a county commission; director of a solid waste authority; governor of a pueblo, tribe or nation; or chairman or executive director of a cooperative association)

I, the undersigned, do hereby certify that I or my staff has read and understand the application requirements, and the conditions contained herein that we must comply with if a grant is awarded.

If a grant is awarded as a result of this application, we will comply with all applicable local, state, and federal regulations and requirements. To the best of my knowledge and belief, the information contained in this application is accurate and complete.

<b>Signature of Signatory Authority</b>	<b>Title of Signatory Authority</b>
<b>Printed Name of Signatory Authority</b>	<b>Date</b>

### Purchasing/Procurement Officer

I, the undersigned, do hereby certify that I am the responsible financial officer for this grant. I also affirm that I have been provided a completed copy of this application.

I, the undersigned, do also affirm that in the event of issuance of a grant award contract, I understand the quarterly reporting requirement and that timely submission of invoices and supporting documentation for reimbursement is necessary, or we may forfeit payment for late or incomplete invoices.

<b>Signature of Purchasing/Procurement Officer</b>	<b>Title of Purchasing/Procurement Officer</b>
<b>Printed Name of Purchasing/Procurement Officer</b>	<b>Date</b>

## **Appendix A**

### **Scrap Tire Management Grant Case Study**

#### **South Central Solid Waste Authorizes Partners with the New Mexico Recycling Coalition and New Mexico State University to Study Rubberized Asphalt**

In 2010, South Central Solid Waste Authority received a \$49,000 Recycling and Illegal Dumping Act grant to evaluate the performance of rubberized asphalt applications in New Mexico. The grant was overseen by the New Mexico Recycling Coalition. Rubberized asphalt is a high-performance alternative to traditional paving material. As a mix of asphalt and recycled rubber derived from scrap tires, rubberized asphalt is longer lasting, safer, less costly, and friendlier to the environment.



The goal of the project was to provide unbiased, useful data so that more New Mexico roadway projects can implement use of rubberized asphalt either as open friction course or fog seals. Prior to this study, no scientific monitoring or data collection had been performed on the rubberized asphalt applications in New Mexico, nor had a no cost/benefit analysis of using the product. At the time, the New Mexico Department of Transportation lacked the resources to do research into the usage of rubberized asphalt.

The study was performed by Paola Bandini, Ph.D., P.E., of the Department of Civil Engineering at New Mexico State University. The 118-page report has been made available to the public on the New Mexico Environment Department: Solid Waste Bureau website in the “Tire Management Program” section. The study showed that rubberized asphalt applications in New Mexico perform better than conventional pavement in the short term and long term and that asphalt-rubber asphalt mixtures tend to be more durable than conventional asphalt mixtures.

Sarah Pierpont, Interim Executive Director of the New Mexico Recycling Coalition stated: “The 2010 RAID-grant-funded project assessed the performance of rubberized asphalt in NM and outlined the potential to provide economic and environmental benefits to our state via crumb rubber modified asphalt. NM disposes of roughly two million tires annually and they are an expensive and difficult waste to manage. What a great solution to take that waste, process it and produce a beneficial product that creates jobs and helps build better roads. This study has laid the groundwork for this to occur.”

Stimulating end markets for scrap tires not only reduces that financial burden, but it can potentially result in economic development for New Mexico. Developing this end market for scrap tires gives them a financial value that can result in reduced disposal fees and potentially a reduction in illegal tire dumps. The current scrap tire management structure provides no financial incentive to handle the tires properly. For that reason, the purchase of rubberized asphalt is currently a priority of the Recycling and Illegal Dumping Alliance.

## **Appendix B**

### **Illegal Dumping Abatement Grant Case Study**

#### **The Pueblo of Santa Ana Transforms Historic Dumpsite into Waste Collection and Recycling Center**

In 2007, the Pueblo of Santa Ana received a Recycling and Illegal Dumping Act grant to clean up a historic illegal dumpsite and transform it into a waste collection and recycling center. This involved hauling away the illegally dumped material, clearing and grading the site, and constructing concrete pads. A community education and outreach program was conducted to educate Pueblo residents about proper solid waste disposal, the health and safety hazards of illegal dumping, and the potential for contamination of the groundwater and adjacent surface waters. The site was fenced and is now staffed so that those who visit the location to illegally dump now have the opportunity to properly dispose of their waste during business hours.



Many illegal dumpers believe they are doing no wrong because they have always dumped in that location, and their parents and grandparents had always dumped in that location. As a result, the site essentially becomes the community dump. This has a compounding effect when those who would not normally dump illegally view the dumpsite as the proper location to dispose of waste. There's also the perception that everyone else is doing it, so there is no harm to adding to the pile.

This dumpsite was immediately adjacent to a canal that drains to the Rio Grande. Hazardous waste dumped at this site can drain into the canal and into groundwater and adversely affect human health and wildlife. These dumpsites also attract disease harboring organisms such as mosquitos and rats, and they create a situation where people near the dumpsite can be injured by broken glass or other sharp material.

Transforming the dumpsite to a proper disposal facility is highly effective because not only does it remove the ability for people to access the property to dump, but the new disposal location could not be more convenient. Sometimes when illegal dumpsites are cleaned up, a fence is installed around the property to keep people from continuing to dump there. Unfortunately, this typically results in the material being dumped outside of the fence.

By turning the dumpsite into a location where people can properly dispose of their material, those dumping before are not encouraged to travel elsewhere to dump the waste. The Pueblo does not charge for tribal members to dispose of their waste. The Recycling and Illegal Dumping Alliance prioritizes projects that utilize physical deterrence because cleaning up a dumpsite does little good if the dumpers will only come again. This type of project is the best physical deterrence because it is designed to avoid people dumping outside the fence. Any projects where such substantial steps are taken to prevent future dumping are much more likely to be awarded.

# Appendix C

## **Recycling Grant Case Study**

### **Sandoval County and Angel Fire Study Organics**

In 2015, both Sandoval County and Angel Fire received Recycling and Illegal Dumping Act grants for the management of organic material. Recent studies have shown approximately three quarters of the U.S. waste stream are organic material, meaning anything that was once alive such as paper, food, tree branches, grass clippings, textiles, leather, and wood.



The Sandoval County grant is to conduct a study on the effectiveness of organics as alternative cover at the landfill. The organic evapotranspiration cover system is expected to hold soil moisture, establish rich topsoil, and thereby encourage stabilization of the landfill cover by creating conditions favorable for the growth of vegetation. This study will provide the science needed to approve this as an alternative method for intermediate cover, and a final report will be used to educate industry professionals and decision makers about an alternative cover system expected to cost less, be more effective, extend the life of landfills by keeping the organics out, and increase the state's waste diversion rate.

Robert Sanchez, Assistant Director of Solid Waste for Sandoval County stated: “The RAID grant is not only saving the County money on alternative cover, but is also expected to stimulate the organics market in New Mexico. Sandoval County has applied for a grant and cooperative funding offered by the U. S. Forest Service for a biomass utilization study. With additional funds from the US Forest Service, the County will build on its current market for the composting facility and capitalize on the current demand for woody biomass that exceeds the current composting facility's capability. Sandoval County Solid Waste department would like to be known as the pioneers in New Mexico Solid Waste industry, for bringing new and innovative ways to reduce, recycle and process Solid Waste.”

The Angel Fire grant is to conduct a study regarding effective management of forest waste, commonly referred to as “slash.” “This RAID grant is expected to not only provide the village with the solutions it needs for a hard-to-manage waste but also should stimulate the organics market in New Mexico,” said Tracy Orr, Grants Administrator for the Village of Angel Fire. New Mexico communities located near forests generate a substantial amount of slash, which creates unique management challenges. As homeowners and businesses must remove dead, diseased, and downed trees to comply with more stringent wildfire protection standards, residents of forest communities typically must pay high slash disposal fees to fully fund the management of an ever increasing volume of trees.

Slash in forest communities in New Mexico is typically incinerated, which provides no beneficial results other than volume reduction. This material could be put to beneficial use as a feedstock for compost, which can then be used for erosion control or growing food, or it could be used to generate electricity. Gordon Environmental, Inc. has been hired to conduct both studies and create the final reports, which will be made available to all communities in New Mexico on the New Mexico Environment Department: Solid Waste Bureau website by June 30, 2016.