



# **Nye County**

## **Solid Waste Minimization and Household Hazardous Waste Management Plan**





## Nye County Solid Waste Minimization and Household Hazardous Waste Management Plan

### Document and Contact Information

<b>Program Manager:</b>	Nye County Public Works (775) 751-6855 <a href="mailto:publicworks@co.nye.nv.us">publicworks@co.nye.nv.us</a>
<b>File Name:</b>	Nye County Solid Waste Minimization and Household Hazardous Waste Management Plan
<b>To obtain this document or to make inquiries:</b>	Pahrump Public Works Office (775) 751-6855 <a href="mailto:publicworks@co.nye.nv.us">publicworks@co.nye.nv.us</a>
<b>Requirements for document acceptance and changes:</b>	Acceptance of, and changes to this document must be reviewed and approved by the Director of Public Works, Nye County Manager and subsequently the Nye County Board of County Commissioners (BoCC).

### History of Revision

Date	Version	Comments
June 21, 2011	1.0	BoCC Adoption of Plan



## Table of Contents

<b>1</b>	<b>Purpose of Plan .....</b>	<b>3</b>
<b>2</b>	<b>Background .....</b>	<b>3</b>
<b>3</b>	<b>History of Solid Waste Minimization and Household Hazardous Waste in Nye County .....</b>	<b>4</b>
<b>4</b>	<b>Regulatory Requirements and Statutes .....</b>	<b>5</b>
<b>5</b>	<b>County-Wide .....</b>	<b>5</b>
5.1	Education/Outreach.....	5
5.2	Existing Programs .....	6
5.3	Slogan and Logos.....	6
5.4	County-Wide Solid Waste Minimization Implementation Measures .....	7
5.4.1	No to Low Cost (\$0-\$1,200) .....	7
5.4.2	Mid-Range Cost (\$1,201-\$25,000) .....	9
5.4.3	High Cost (\$25,001 +) .....	9
5.5	County-Wide Household Hazardous Waste Management Implementation Measures .....	9
5.5.1	No to Low Cost (\$0-\$1,200) .....	9
5.5.2	Mid-Range Cost (\$1,201-\$25,000) .....	11
5.5.3	High Cost (\$25,001 +) .....	11
<b>6</b>	<b>Pahrump Valley Landfill.....</b>	<b>12</b>
6.1	Existing Conditions.....	12
6.2	Communities Served .....	12
6.3	Waste Stream .....	14
6.3.1	Major Sources .....	14
6.3.2	Nature and Volume of Solid Waste other than Household Hazardous Waste .....	14
6.3.3	Nature and Volume of Household Hazardous Waste.....	15
6.4	Pahrump Valley Landfill Solid Waste Minimization Implementation Measures .....	16
6.4.1	No to Low Cost (\$0-\$1,200) .....	16
6.4.2	Mid-Range Cost (\$1,201-\$25,000) .....	16
6.4.3	High Cost (\$25,001 +) .....	16
6.5	Pahrump Valley Landfill HHW Management Implementation Measures .....	16
6.5.1	No to Low Cost (\$0-\$1,200) .....	16
6.5.2	Mid-Range Cost (\$1,201-\$25,000) .....	16
6.5.3	High Cost (\$25,001 +) .....	16
<b>7</b>	<b>Round Mountain Landfill .....</b>	<b>16</b>



---

7.1	Existing Conditions.....	16
7.2	Communities Served.....	17
7.3	Waste Stream .....	17
7.3.1	Major Sources .....	17
7.3.2	Nature and Volume of Solid Waste Other than Household Hazardous Waste .....	17
7.4	Round Mountain Landfill Solid Waste Minimization Implementation Measures .....	18
7.4.1	No to Low Cost (\$0-\$1,200).....	18
7.4.2	Mid-Range Cost (\$1,201-\$25,000).....	18
7.4.3	High Cost (\$25,001+) .....	18
7.5	Round Mountain Landfill HHW Management Implementation Measures.....	18
7.5.1	No to Low Cost (\$0-\$1,200 per Year).....	18
7.5.2	Mid-Range Cost (\$1,201-\$25,000 per Year) .....	18
7.5.3	High Cost (\$25,001+ per Year).....	18
<b>8</b>	<b>Tonopah Landfill .....</b>	<b>18</b>
8.1	Existing Conditions.....	18
8.2	Communities Served.....	18
8.3	Waste Stream .....	19
8.3.1	Major Sources .....	19
8.3.2	Nature and Volume of Solid Waste other than Household Hazardous Waste .....	19
8.3.3	Nature and Volume of Household Hazardous Waste.....	20
8.4	Tonopah Landfill Solid Waste Minimization Implementation Measures .....	20
8.4.1	Low Cost (\$0-\$1,200 per Year) .....	20
8.4.2	Mid-Range Cost (\$1,201-\$25,000 per Year) .....	21
8.4.3	High Cost (\$25,001+ per Year).....	21
8.5	Tonopah Landfill Household Hazardous Waste Management Implementation Measures .....	21
8.5.1	Low Cost (\$0-\$1,200 per Year) .....	21
8.5.2	Mid-Range Cost (\$1,201-\$25,000 per Year) .....	21
8.5.3	High Cost (\$25,001+ per Year).....	21
<b>9</b>	<b>Conclusion .....</b>	<b>21</b>
<b>10</b>	<b>Sources.....</b>	<b>22</b>
	<b>Appendices.....</b>	<b>28</b>



---

## **Nye County Solid Waste Minimization and Household Hazardous Waste Management Plan**

### **1 Purpose of Plan**

The Nye County Solid Waste Minimization and Household Hazardous Waste Management Plan (Plan) is designed to: (1) raise awareness among County residents of management and disposal methods for all types of solid waste, including household hazardous waste (HHW); (2) identify methods of minimizing the amount of solid waste disposed of in County landfills and proper handling of household hazard waste; and (3) encourage active participation of community members in selecting and implementing methods of minimizing the amount of solid waste and managing household hazardous waste. Activities include the identification of certification, training and permits required to enact and implement a Solid Waste Minimization and Household Hazardous Waste Management Plan.

The main body of the Plan is supplemented by several appendixes allowing Plan updates to occur as needed.

### **2 Background**

Nye County was awarded a Solid Waste Management Grant (Grant) by the US Department of Agriculture State of Nevada Rural Development Office effective October 1, 2009, to develop and implement a County-wide Solid Waste Minimization and Household Hazardous Waste Management Plan (hereafter, Plan). BEC Environmental, Inc. (BEC) was selected as the County's contractor to assist in the development of the Plan through a Request for Qualifications process.

Nye County formed an Advisory Team to direct the development of the Plan. The Team initially consisted of David Fanning, Director, Nye County Public Works (Team Leader); Michael Genge, Engineering Technician III, Nye County Public Works; Douglas "Stretch" Baker, District Road Supervisor, Nye County Public Works (Town of Tonopah); Amy Fanning, Grants Administrator, Nye County; and the Contractor, BEC Environmental, Inc. Team members subsequently identified and invited the participation of representatives for each of the six named communities in the Grant, which included Amargosa Valley, Beatty, Gabbs, Pahrump, Round Mountain, and Tonopah, Nye County's contracted solid waste handlers/haulers, and representatives from the Duckwater and the Yomba Shoshone Tribes. A list of all Advisory Team members is provided in Appendix A of this Plan. Nye County Public Works staff would like to express their thanks to each of the members of the Advisory Team and to all the members of communities throughout Nye County who provided input and comments to help create this Plan.

Commencement of the Advisory Team meetings occurred on July 20, 2010. Meetings were held continuously throughout the grant period to review community needs, best practices, options for community outreach, programmatic options, available resources, and the results of any



implementation measures approved by the Board of County Commissioners (BoCC). A brief summary of the above meetings is provided in Appendix B of this Plan.

The Grant required a series of public workshops be held in each of the six major communities in Nye County: Amargosa Valley, Beatty, Gabbs, Pahrump, Round Mountain and Tonopah. The workshops were held in January and February of 2011. The purpose of the workshops was to get feedback from members of each of the communities regarding what they needed and what they wanted to see implemented in their areas. The Plan provides a summary of the community workshops (Appendix C1), a summary of the questionnaires filled out by workshop participants (Appendix C2), and list of each community's events (Appendix C3).

The Team reviewed several Plans and Programs from communities throughout the United States. Programs of particular interest are included in the Website Reference Tables provided in Appendix D, with hyperlinks to the material. Other Plans, Programs and materials referenced are included in Section 10 Sources.

### **3 History of Solid Waste Minimization and HHW in Nye County**

The initial Team meeting was held on July 20, 2010, to familiarize the Team with the grant awarded to Nye County, outline the purpose of the grant, and request information from members regarding their communities' current Solid Waste Minimization and Household Hazardous Waste Management capabilities and programs. Team members were invited to share issues they had encountered, and potential opportunities for minimizing solid waste sent to the landfills and for proper disposal of household hazardous waste.

Historic solid waste management efforts within Nye County have not included measures for managing household hazardous waste. No Nye County landfills or landfill operators are certified to accept hazardous waste. Businesses in Nye County typically make independent arrangements with organizations to handle their used oil and other hazardous wastes, an option impractical for individual residents. Although Nye County's Solid Waste Management Plan prohibits uncertified landfills from accepting hazardous wastes, the potential remains for waste contaminated with household hazardous waste to be disposed of in the County's landfills, simply because residential users do not understand what materials constitute hazardous waste or face significant distances to reach facilities that accept specific wastes. The lack of viable disposal options also leaves the potential for waste to be illegally disposed of in the desert (historically, "desert dumping" has been an issue of environmental concern for Nye County).

Although the majority of Nye County's communities have not historically had any formal recycling programs, the County has had a recycling program at the Pahrump Landfill since July 2005. Several communities have had informal, ad hoc recycling efforts and recycling bins are available for materials drop-off in the communities of Amargosa Valley, Beatty, and Pahrump.

The County has an on-going waste paper shredding recycling program in place for County offices throughout the County.



## 4 Regulatory Requirements and Statutes

Recycling and household hazardous waste management in Nye County and its communities is governed by Nevada Administrative Codes and Nevada Revised Statutes, as identified in Table 1.

**Table 1: Applicable Regulations**

Title	Description	Link
<b>Nevada Administrative Code</b>		
<b>Nevada Administrative Code 444 – Sanitation</b>	Nevada law dealing with the handling and disposal of solid waste	<a href="http://www.leg.state.nv.us/nac/nac-444.html">http://www.leg.state.nv.us/nac/nac-444.html</a>
<b>Nevada Administrative Code 444A – Programs for Recycling</b>	Nevada law dealing with recycling of solid waste	<a href="http://leg.state.nv.us/nac/NAC-444A.html">http://leg.state.nv.us/nac/NAC-444A.html</a>
<b>Nevada Administrative Code 459 – Hazardous Materials</b>	Nevada law dealing with the handling, storage and disposal of hazardous materials	<a href="http://www.leg.state.nv.us/nac/nac-459.html">http://www.leg.state.nv.us/nac/nac-459.html</a>
<b>Nevada Revised Statutes</b>		
<b>Nevada Revised Statute 444 – Sanitation</b>	Nevada law dealing with the handling and disposal of solid waste	<a href="http://www.leg.state.nv.us/nrs/NRS-444.html">http://www.leg.state.nv.us/nrs/NRS-444.html</a>
<b>Nevada Revised Statute 444A – Programs for Recycling</b>	Nevada law dealing with recycling of solid waste	<a href="http://www.leg.state.nv.us/nrs/NRS-444A.html">http://www.leg.state.nv.us/nrs/NRS-444A.html</a>
<b>Nevada Revised Statute 459 – Hazardous Materials</b>	Nevada law dealing with the handling, storage and disposal of hazardous materials	<a href="http://www.leg.state.nv.us/nrs/NRS-459.html">http://www.leg.state.nv.us/nrs/NRS-459.html</a>

## 5 County-Wide

Nye County owns three landfills, located near the communities of Pahrump, Round Mountain, and Tonopah. The management options and recommendations for implementation contained in this Plan are organized based on the landfill facilities, waste streams, and communities and industries contributing solid waste to each of the landfills. Solid waste minimization and household hazardous waste management options were selected based on general considerations, landfill conditions, and community preferences and capabilities. The Landfill Services Area Map in Appendix E shows the three County-owned landfills and the approximate areas they service.

### 5.1 Education/Outreach

Prior to the development of this Plan no County-wide education/outreach programs existed in Nye County. Education and outreach programs were done only as community members, County personnel, and/or landfill operators tried to meet specific community concerns and needs.



---

## 5.2 Existing Programs

The Nye County Road Department currently accepts waste oil in several locations in the County. The amount of waste oil received at each location is being tracked and those records will be used as a baseline to track the increase in participation due to County's education efforts. The "Used Oil Program" flyer in Appendix G2 was designed to help inform and publicize this program. Oil collected is used in heaters designed to burn used motor oil. This process has resulted in annual savings to Nye County for the past several years.

As a direct result of the Workshop held in Gabbs, a program for the collection of expired medications was implemented. A member of the community asked a question regarding proper disposal of pharmaceuticals and Douglas "Stretch" Baker made inquiries and was able to establish a program that has proven very successful for the Town of Gabbs.

The Nye County Sheriff's Office has an "Operations Medicine Cabinet" program available in Pahrump which involves the safe collection and disposal of prescription medications. The Program started in 2010 and each time the Program receives any advertising in the newspapers or radio the quantity collected increases. Similar programs are available through the Sheriff's Office throughout various communities. A flyer was developed providing information for local residents. See Appendix G1.

The US Department of Agriculture (USDA) has operated an insecticide, fungicide, and herbicide collection program in Nevada since 1994. USDA collects any unused farm, ranch, nursery, and homeowner-generated pesticides or herbicides. Individuals or communities may contact the Nevada Department of Agriculture to arrange for a collection event in their community. USDA's contractor will pick up and dispose of (only) the pesticides and herbicides collected. Participation in the program is free (so long as only pesticides and herbicides are received). Their flyer is included in Appendix F3.

## 5.3 Slogan and Logos

The Team developed and selected a slogan and two logos for the Plan (Figure 1). The slogan and logos are intended for use in public outreach presentations and on educational materials to identify County-approved documents and increase recognition and awareness of the Plan.



**Figure 1: Slogan and Logos**

Nye's future is in your hands.



## **5.4 County-Wide Solid Waste Minimization Implementation Measures**

### **5.4.1 No to Low Cost (\$0-\$1,200)**

#### **Advertising**

A working list of local newspapers, radio and television stations, and websites is provided in Appendix H. Representatives from several of these entities have indicated a willingness to provide public service announcements for programs implemented. The Team recommends County and community representatives look for opportunities to use these vehicles to publicize programs.

#### **Education**

Community education will be vital to the successful implementation of any management options for Solid Waste Minimization. The Team believes residents must be informed as to how they can minimize solid waste entering the landfill for the Plan to be successful. Educational materials could be made available at local Chambers of Commerce, County and Town Offices. Team members, or their representatives, will be asked to attend community events to distribute information on recycling and solid waste minimization generally and on Nye County's Plan in particular. A current list of community events recommended for attendance by members of the Advisory Team, or their representatives, is contained in Appendix C3.

The Nevada Division of Environmental Protection (NDEP) has developed Elementary and Middle School Recycling and High School Recycling Curriculums, including lesson plans and slides, which are available at their web site: [http://nevadarecycles.gov/main/curr\\_main\\_pg.htm](http://nevadarecycles.gov/main/curr_main_pg.htm). The Nye County



School District would have to approve the curriculum, already approved by the State of Nevada, to allow teachers' access to an accredited program already developed and available. Slides and lesson plans are available for elementary and middle schools and for high schools. The Team suggests a Nye County staff member approach the Nye County School District to determine how the NDEP curriculum can be approved for use by teachers within the Nye County School District. Teachers would then be able to use these lesson plans in their classrooms.

### **Flyers**

The grant under which this Plan was developed included funds for printing educational materials. Flyers will be printed and distributed to each of the communities participating in the study and made available on a first come, first served basis. See Appendices F and G. These flyers are also available on the Nye County Website for printing and distribution at community events and for educational purposes.

### **Consumer Reduction Tips**

Appendix I – Consumer Reduction Tips contains numerous suggestions for reducing, reusing, and recycling several different materials. This list can be updated and used as a resource for educational campaigns throughout the County.

### **Website - Earth911.com**

The website [www.Earth911.com](http://www.Earth911.com) is the nation's largest directory of recyclable materials. The site is funded by manufacturers and can be used by Nye County and/or its residents at no charge. The site provides disposal and reuse solutions for 260 materials and an interactive link based on zip code as to the nearest location for recycling materials. Representatives from Earth911.com stated they would provide Nye County access to all materials on their site. Earth911.com prefers to work with one member of the community to obtain information about programs in their immediate area (based upon ZIP codes).

Earth911.com recommends signing up for their background system, called the Earth911.com Manager system, in order to understand how their program works. The site allows organizational representatives the option to have access to add, update, and remove their information on the site. Resources already listed on the website can be linked to an organization's account by filling out Where's my Data. Earth911.com will distribute resources through their website, partner websites, Earth911.com's 1-800-Cleanup phone service, and an iPhone application. The Earth911.com system is a free service.



Nye County Public Works personnel will coordinate with the Town Offices to ensure an effective means of communicating with Earth911 can be developed and maintained.

### **Website – Nye County**

Nye County staff designed and developed a portion of the Nye County Website dedicated to solid waste minimization. The website will include this Plan, additional information about the various programs available to residents of Nye County, and will be maintained by Nye County Public Works personnel.

#### **5.4.2 Mid-Range Cost (\$1,201-\$25,000)**

Several communities expressed interest in having access to balers and/or compactors. One company representative suggested rural communities consider stationary compactors with 40 yard receiver boxes. He suggested compactors with open hoppers with large stop and start buttons and a light that comes on when the hopper is full. When the company is notified the hopper is full, they will send a truck to take the filled compactor box to the landfill. Rebuilt compactors range from \$15-\$20,000. The representative did not recommend a baler be used unless trained personnel were available. Used 60x30 balers producing 1,000 pound bales of cardboard range from \$8-\$9,000.

#### **5.4.3 High Cost (\$25,001 +)**

A materials recovery facility (MRF) that takes all materials in one truck is called a Dirty MRF. A “Dirty MRF” would require substantial investment by the County. The advantage of such a facility is the simplicity of the collection process. One truck, one route and one driver could collect all the materials. These facilities require more “hand” sorting which leads to more jobs.

### **5.5 County-Wide Household Hazardous Waste Management Implementation Measures**

#### **5.5.1 No to Low Cost (\$0-\$1,200)**

##### **Advertising**

A working list of local newspapers, radio and television stations, and websites is provided in Appendix H. Representatives from several of these entities have indicated a willingness to provide public service announcements for programs implemented. The Team recommends County and community representatives look for opportunities to use these vehicles to publicize programs.



---

## **Education**

Community education will be vital to the successful implementation of any management options for Household Hazardous Waste Management. The Team believes residents must be informed as to what constitutes household hazardous waste for the Plan to be successful. Educational materials could be made available at local Chambers of Commerce, County and Town Offices. Team members, or their representatives, will be asked to attend community events to distribute information on household hazardous waste generally and on Nye County's Plan in particular. A current list of community events recommended for attendance by members of the Advisory Team, or their representatives, is contained in Appendix C3.

## **Flyers**

The grant under which this Plan was developed included funds for printing educational materials. Flyers will be printed and distributed to each of the communities participating in the study and made available on a first come, first served basis. See Appendices F and G. These flyers are also available on the Nye County Website for printing and distribution at community events and for educational purposes.

## **Consumer Reduction Tips**

Appendix I - Tips contains several suggestions for reducing the amount of household hazardous waste entering the waste stream. This list can be updated and used as a resource for education campaigns throughout the County.

## **Used Motor Oil Collection**

The Nye County Road Department currently accepts waste oil at several locations throughout the County. Expansion of the program to all communities would be a low cost means of encouraging further participation and limiting improper disposal of used motor oil. There is historical data available which can be used as a baseline to track the County's efforts to increase participation in waste oil collection. See Appendix G2.

## **Website – Earth911.com**

The website [www.Earth911.com](http://www.Earth911.com) is funded by manufacturers and can be used by Nye County and/or its residents at no charge. The site provides an interactive link based on zip code as to the nearest location for disposing of household hazardous waste. Representatives from Earth911.com stated they would provide Nye County access to all materials on their site. Earth911.com prefers to work with one member of the community to obtain information about programs in their immediate area (based upon ZIP codes).



Earth911.com recommends signing up for their background system, called the Earth911.com Manager system, in order to understand how their program works. The site allows organizational representatives the option to have access to add, update, and remove their information on the site. Resources already listed on the website can be linked to an organization's account by filling out Where's my Data. Earth911.com will distribute resources through their website, partner websites, Earth911.com's 1-800-Cleanup phone service, and an iPhone application. The Earth911.com system is a free service.

Nye County Public Works personnel will coordinate with the Town Offices to ensure an effective means of communicating with Earth911 can be developed and maintained.

### **Website – Nye County**

Nye County staff designed and developed a portion of the Nye County Website dedicated to household hazardous waste management. The website will include this Plan, additional information about the various programs available to residents of Nye County, and will be maintained by Nye County Public Works personnel.

#### **5.5.2 Mid-Range Cost (\$1,201-\$25,000)**

None have been identified at this time; however, the Team continues to look for possible options.

#### **5.5.3 High Cost (\$25,001 +)**

### **Contract Household Hazardous Waste Hauler**

Discussion with a licensed hazardous waste hauler determined that lower population communities such as Beatty with approximately 1,200 people, Round Mountain with 2,500 people and Tonopah with about 3,000 people made it impractical to service the area. A car count could be used to try and calculate the amount of hazardous material likely to be picked up. For example in Tonopah, approximately a 1% turnout would only mean roughly 30 cars worth of material collected. The nearest waste hauler is around 500 miles from these communities which would add a great deal to the cost of any program. The ball park estimate provided for the cost would be \$30,000-\$40,000 per community event. The costs could be added as a service charge to the consumer's trash or water bill.

Nye County could contract with a company licensed to haul and dispose of household hazardous waste. Based on quotes obtained from companies licensed to haul and dispose of household hazardous waste, and Nye County's



own analysis, costs for an initial, single day collection event would range from \$25,000-\$40,000.

### **Train the Trainer**

In 2011 Nye County was awarded a USDA Rural Development Utilities Program (RDUP) Solid Waste Management Grant to facilitate a “Train the Trainer Program” in Nye County. The Grant Award in the amount of \$48,000 will be used to train and obtain certification for one or more Nye County employee(s) as a Certified Hazardous Materials Manager (CHMM) or Certified Hazardous Materials Practitioner (CHMP). Once Nye County employees have been trained and accredited as CHMM/P, Nye County will utilize the skills and training garnered to begin training landfill operators within Nye County. Nye County intends to extend the benefit of training to Nye County employees. Activities include the identification of certification, training and permits required to enact and implement a Solid Waste Minimization and Household Hazardous Waste Management Plan.

This program will support the RDUP’s goal of improving the planning and management of solid waste sites in rural areas. The program will provide training for Public Works staff. With well-trained operators and trainers, Nye County will be better positioned to effectively manage its solid waste stream (including household hazardous waste) to ensure the health and continued sustainable growth of Nye County’s residents and communities.

## **6 Pahrump Valley Landfill**

### **6.1 Existing Conditions**

The Pahrump Valley Landfill is an unlined, Class I Landfill operating under a permit from the Nevada Division of Environmental Protection (NDEP). The Pahrump Valley landfill is located on Mesquite Avenue in Pahrump, Nevada, approximately one mile east of State Highway 160. The landfill comprises approximately 80 acres, with the active area of the landfill occupying approximately 42 acres. The Pahrump Landfill is open to residents seven days per week from 8:00 a.m. to 4:00 p.m.

### **6.2 Communities Served**

The Pahrump Landfill serves communities located in the southern portion of Nye County. Communities served include the Towns of Amargosa Valley, Beatty and Pahrump.

#### **Amargosa Valley**

The Amargosa Transfer Station is located on Highway 373, seven miles north of Long Street Inn Hotel Casino. The site is open seven days per week, 24 hour access. There is a separate area provided for car batteries. Recycling drop-off bins are available in



Amargosa Valley at the intersection of Mecca Road and Highway 373. The bins are free of charge to local residents. Woody biomass is taken to the Pahrump Landfill where it is chipped and used as cover for the Landfill.

Appliances are dropped off at the transfer station and disposal is taken care of at the Pahrump Landfill. There is currently no program for handling the disposal of electronic waste.

The transfer station in Amargosa Valley does not accept household hazardous waste. Signage posted at the transfer station indicates used motor oil is not accepted, but used motor oil is still left at the transfer station. Most people hold on to household hazardous waste, such as paints, instead of disposing of them properly. There is currently no program for handling household hazardous waste, with the exception of waste oil, which can be dropped off at the Nye County Road Department site, at 871 E. Amargosa Farm Road. Further information is provided in Appendix G2 in the Used Oil Program flyer.

- Desert dumping is the greatest problem for Amargosa Valley.
- There is an annual dunes cleanup and cemetery cleanup.
- Ponderosa Dairy in Amargosa Valley does its own composting.

### **Beatty**

There is currently one transfer station available for community members, with a separate area provided for car batteries. The Beatty Transfer Station is located on Highway 374 heading toward Rhyolite. Biomass is taken to the Pahrump Landfill where it is chipped.

Appliances are dropped off at the transfer station and disposal is taken care of at the Pahrump landfill. There is no place to take electronic waste.

There is currently no program for handling household hazardous waste, with the exception of waste oil, which can be dropped off at the Nye County Road Department site at 450 A Avenue South. Further information is provided in Appendix G2 in the Used Oil Program flyer.

Desert dumping has been a problem in Beatty, including a lot of green waste and old cars. More awareness for waste oil collection is needed, as many residents change their own oil.

There have been volunteer efforts for Town cleanups from time to time and abatement programs for removing insulation in old mobile homes.

### **Pahrump**

Recycling services/bins are located within the community at Wal-Mart, Artesia Community Center and Pahrump Valley Disposal (PVD) for the drop-off of various



recyclable materials. Recycling bins are also located at Pahrump Valley High School and Rosemary Clark Middle School, in addition to several elementary schools. Most County and Town government facilities have recycling bins as well. At the landfill, in addition to the segregation of metal, wood-waste and cardboard, all tires are diverted from burial and hauled offsite to a tire recycling facility. There are two recycling/buy-back centers operating in Town.

There is currently no program for handling household hazardous waste, with the exception of waste oil, which can be dropped off at the Nye County Road Department site, at 871 E. Boothill Drive. Further information is provided in Appendix G2 in the Used Oil Program flyer.

### 6.3 Waste Stream

The waste stream at the Pahrump Valley Landfill consists of Municipal Solid Waste, including residential, commercial and industrial waste.

#### 6.3.1 Major Sources

The Town of Pahrump has the largest population in the County.

#### 6.3.2 Nature and Volume of Solid Waste other than HHW

A breakdown of the waste stream from 2006-2010 is provided in Table 2 (NOTE: the numbers for Amargosa Valley and Beatty were estimated based on Pahrump percentages and recycled materials are tons that leave the landfill during the reporting period).

**Table 2: Pahrump Valley Landfill Waste Matrix**

<b>Amargosa Valley</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
Metal (tons/year)	31.31	38.31	19.98	45.22	39.35
Wood (tons/year)	2.57	9.86	24.26	30.50	9.59
Cardboard (tons/year)	2.04	0.95	1.52	4.60	2.20
Alternate Daily Cover (tons/year)	0.00	0.00	0.00	0.00	0.00
Co-Mingling (tons/year)	0.04	2.76	13.97	18.87	19.64
Tires (tons/year)	0.00	2.15	0.79	3.03	3.27
Aluminum (tons/year)	0.00	0.04	0.00	0.00	0.00
Batteries (each 06-09, tons 10)	25.90	27.73	16.58	24.55	0.32
Municipal Solid Waste <sup>1</sup> (tons/year)	1,510.85	1,662.14	1,878.12	1,849.31	1,434.11
<b>Beatty</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
Metal (tons/year)	29.14	31.69	14.52	28.16	37.15
Wood (tons/year)	2.09	7.83	17.55	22.00	9.16



Cardboard (tons/year)	1.99	0.81	1.21	3.17	2.11
Alternate Daily Cover (tons/year)	0.00	0.00	0.00	0.00	0.00
Co-Mingling (tons/year)	0.03	2.48	9.84	13.23	19.34
Tires (tons/year)	0.00	1.92	0.59	2.20	3.01
Aluminum (tons/year)	0.00	0.03	0.00	0.00	0.00
Batteries (each 06-09, tons 10)	23.95	24.34	11.41	17.26	0.30
Municipal Solid Waste <sup>1</sup> (tons/year)	1,392.23	1,467.57	1,346.53	1,267.30	1,397.82
<b>Pahrump</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
Metal (tons/year)	1,553.36	1,569.05	600.43	1,235.31	1,458.22
Wood (tons/year)	135.86	401.67	741.27	928.99	353.97
Cardboard (tons/year)	101.93	38.84	51.37	135.46	81.82
Alternate Daily Cover (tons/year)	486.00	2,497.64	187.00	7,918.58	2,509.07
Co-Mingling (tons/year)	2.32	109.28	419.58	557.56	734.17
Tires (tons/year)	0.00	76.75	24.55	79.32	121.76
Aluminum (tons/year)	0.00	1.82	0.00	0.00	0.00
Batteries (each 06-09, tons 10)	1,332.15	1,203.91	500.01	747.19	11.51
Municipal Solid Waste <sup>1</sup> (tons/year)	78,234.09	72,248.47	59,076.38	55,576.34	55,860.78
<b>Total</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
Metal (tons/year)	1,613.81	1,639.05	634.93	1,308.69	1,534.72
Wood (tons/year)	140.52	419.36	783.08	981.49	372.72
Cardboard (tons/year)	105.96	40.60	54.10	143.23	86.13
Alternate Daily Cover (tons/year)	486.00	2,497.64	187.00	7,918.58	2,509.07
Co-Mingling (tons/year)	2.39	114.52	443.39	589.66	773.15
Tires (tons/year)	0.00	80.82	25.93	84.55	128.04
Aluminum (tons/year)	0.00	1.89	0.00	0.00	0.00
Batteries (each 06-09, tons 10)	1,382.00	1,255.98	528.00	789.00	12.13
Municipal Solid Waste <sup>1</sup> (tons/year)	81,137.17	75,378.18	62,301.03	58,692.95	58,692.71

<sup>1</sup>Pahrump Landfill total waste data from Pahrump Landfill Waste Summary Less Imported from California

### 6.3.3 Nature and Volume of Household Hazardous Waste

Residents identified household hazardous waste in their community as oil, paint, solvents, pesticides, batteries, and light bulbs.



## **6.4 Pahrump Valley Landfill Solid Waste Minimization Implementation Measures**

### **6.4.1 No to Low Cost (\$0-\$1,200)**

See § 5.4 County-Wide Solid Waste Implementation Measures

#### **Other**

The Town of Pahrump contracted with a Las Vegas-based company to hold a Community Shredding Day that lasted four hours in Fall 2010. During the time-frame of the Shredding Day, 75 people brought materials to be shredded and filled the disposal truck, with some excess material. Additional single day events could be held.

### **6.4.2 Mid-Range Cost (\$1,201-\$25,000)**

See § 5.4 County-Wide Solid Waste Implementation Measures

### **6.4.3 High Cost (\$25,001 +)**

See § 5.4 County-Wide Solid Waste Implementation Measures

## **6.5 Pahrump Valley Landfill Household Hazardous Waste Management Implementation Measures**

### **6.5.1 No to Low Cost (\$0-\$1,200)**

See § 5.5 County-Wide HHW Management Implementation Measures

### **6.5.2 Mid-Range Cost (\$1,201-\$25,000)**

Amargosa Valley is interested in finding a solution for disposal of their used paint. See § 5.5 County-Wide HHW Management Implementation Measures.

### **6.5.3 High Cost (\$25,001 +)**

See § 5.5 County-Wide HHW Management Implementation Measures

## **7 Round Mountain Landfill**

### **7.1 Existing Conditions**

The Round Mountain Landfill is an unlined, Class II Landfill operating under a permit from the Nevada Division of Environmental Protection (NDEP). The landfill comprises approximately 80 acres, with the active area of the landfill occupying approximately 40 acres.



## 7.2 Communities Served

The Round Mountain Landfill serves communities located in the northern portion of Nye County. Communities served include Carvers, Hadley, and Round Mountain as well as the Duckwater Tribe and the communities of Currant and Warm Springs.

### Duckwater Tribe

The Duckwater Tribe and should be contacted for further information.

### Round Mountain

Household hazardous waste, construction and demolition wastes are all produced. Cardboard is collected at the grocery store for recycling and some metal recycling is also done.

## 7.3 Waste Stream

The waste stream at the Round Mountain Landfill consists of Municipal Solid Waste, including residential, commercial and industrial waste. A breakdown of the waste stream from 2006-2008 is provided in Table 3.

### 7.3.1 Major Sources

The Round Mountain Landfill services several small communities.

### 7.3.2 Nature and Volume of Solid Waste Other than HHW

The Round Mountain Landfill is a Class II landfill. There is currently no requirement for reporting recycling materials from a Class II landfill.

**Table 3: Round Mountain Landfill Waste Matrix**

Round Mountain Landfill	2006	2007	2008
Metal (tons/year) *	0.00	0.00	0.00
Wood (tons/year) *	0.00	0.00	0.00
Cardboard (tons/year) *	0.00	0.00	0.00
Alt. Daily Cover (ton/year) *	0.00	0.00	0.00
Co-Mingling (tons/year) *	0.00	0.00	0.00
Tires (tons/year) *	0.00	0.00	0.00
Aluminum (tons/year) *	0.00	0.00	0.00
Batteries (each) *	0.00	0.00	0.00
Municipal Solid Waste (tons/year)	5792.23	7542.62	8097.23

*June 2009 Solid Waste Management Plan Update Nye County, Nevada*

*\*For Future Tracking of Recycling*



## **7.4 Round Mountain Landfill Solid Waste Minimization Implementation Measures**

### **7.4.1 No to Low Cost (\$0-\$1,200)**

See § 5.4 County-Wide Solid Waste Implementation Measures

### **7.4.2 Mid-Range Cost (\$1,201-\$25,000)**

See § 5.4 County-Wide Solid Waste Implementation Measures

### **7.4.3 High Cost (\$25,001 +)**

See § 5.4 County-Wide Solid Waste Implementation Measures

## **7.5 Round Mountain Landfill HHW Management Implementation Measures**

### **7.5.1 No to Low Cost (\$0-\$1,200 per Year)**

See § 5.5 County-Wide HHW Management Implementation Measures

### **7.5.2 Mid-Range Cost (\$1,201-\$25,000 per Year)**

See § 5.5 County-Wide HHW Management Implementation Measures

### **7.5.3 High Cost (\$25,001+ per Year)**

See § 5.5 County-Wide HHW Management Implementation Measures

## **8 Tonopah Landfill**

### **8.1 Existing Conditions**

The Tonopah Landfill is an unlined, Class II Landfill operating under a permit from the Nevada Division of Environmental Protection (NDEP). The Tonopah Landfill is located approximately four miles east of the Town of Tonopah, Nevada, on US Highway 6. The landfill comprises approximately 80 acres, with the active area of the landfill occupying approximately 80 acres.

### **8.2 Communities Served**

The Tonopah Landfill serves communities located in the northwestern portion of Nye County. Communities served include the Towns of Gabbs and Tonopah and the Yomba Shoshone Tribe.



## **Gabbs**

Gabbs currently has curbside pickup and a lay-down yard for appliances and green waste. Most household hazardous waste from Gabbs probably ends up with household waste in the Tonopah landfill due to a lack of understanding of what constitutes hazardous waste. The biggest problem identified is desert dumping. The main reason given for the desert dumping is people do not want to pay the \$17.50 per month for their garbage collection.

## **Tonopah**

There is currently no program for handling household hazardous waste, with the exception of waste oil, which can be dropped off at the Nye County Road Department site at 377 N. Jackson Street. Further information is provided in Appendix G2 in the Used Oil Program flyer.

Oil and paints are currently collected on a pallet at the landfill entrance. Recycling for metals and green waste exists in Tonopah. Chipped green waste is used in Town parks.

The annual Town cleanup week in Tonopah has been very successful in the four years it has been in place.

## **Yomba Shoshone Tribe**

Walker River Collection hauls waste from the Yomba Shoshone Reservation to the Tonopah landfill, as needed. Plastic, aluminum, and oil are collected by the Tribe and taken to Fallon, Nevada. The Tribe conducts regular monthly community education programs covering a variety of topics including recycling and hazardous waste. Their main problem is tire disposal.

## **8.3 Waste Stream**

The waste stream at the Tonopah Landfill consists of Municipal Solid Waste, including residential, commercial and industrial waste. A breakdown of the waste stream from 2006-2008 is provided in Table 4.

### **8.3.1 Major Sources**

Residents, commercial/industrial and agricultural/ranching operations in the area.

### **8.3.2 Nature and Volume of Solid Waste other than HHW**

The Tonopah Landfill is a Class II landfill. There is currently no requirement for reporting recycling materials from a Class II landfill.



**Table 4: Tonopah Landfill Waste Matrix**

<b>Gabbs</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
Metal (tons/year) *	0.00	0.00	0.00
Wood (tons/year) *	0.00	0.00	0.00
Cardboard (tons/year) *	0.00	0.00	0.00
Alt. Daily Cover (ton/year) *	0.00	0.00	0.00
Co-Mingling (tons/year) *	0.00	0.00	0.00
Tires (tons/year) *	0.00	0.00	0.00
Aluminum (tons/year) *	0.00	0.00	0.00
Batteries (each) *	0.00	0.00	0.00
Municipal Solid Waste (tons/year)	616.29	598.30	865.02
<b>Tonopah</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
Metal (tons/year) *	0.00	0.00	0.00
Wood (tons/year) *	0.00	0.00	0.00
Cardboard (tons/year) *	0.00	0.00	0.00
Alt. Daily Cover (ton/year) *	0.00	0.00	0.00
Co-Mingling (tons/year) *	0.00	0.00	0.00
Tires (tons/year) *	0.00	0.00	0.00
Aluminum (tons/year) *	0.00	0.00	0.00
Batteries (each) *	0.00	0.00	0.00
Municipal Solid Waste (tons/year)	5143.45	4840.75	6858.39
<b>Total</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
Municipal Solid Waste (tons/year)	5759.74	5439.05	7723.41

*June 2009 Solid Waste Management Plan Update Nye County, Nevada*

*\*For Future Tracking of Recycling*

The Town of Gabbs currently collects newspapers and plastics for recycling. A community member transports materials to Reno, Nevada for recycling. The elementary school in Gabbs collects and recycles aluminum cans as a means to raise funds for the school.

### **8.3.3 Nature and Volume of Household Hazardous Waste**

Residents identified household hazardous waste in their community as oil, paint, solvents, pesticides, and batteries. There is currently no site in Gabbs to legally dump tires, batteries, oils or paints. The Town of Gabbs also faces a challenge with abandoned cars in the area.

## **8.4 Tonopah Landfill Solid Waste Minimization Implementation Measures**

### **8.4.1 Low Cost (\$0-\$1,200 per Year)**



See § 5.4 County-Wide Solid Waste Implementation Measures

#### **8.4.2 Mid-Range Cost (\$1,201-\$25,000 per Year)**

See § 5.4 County-Wide Solid Waste Implementation Measures

#### **8.4.3 High Cost (\$25,001+ per Year)**

See § 5.4 County-Wide Solid Waste Implementation Measures

##### **Dump Trailer for the Town of Gabbs**

Residents in the Town of Gabbs suggested an end dump trailer or a large semi-dump trailer with swing doors might be used.

##### **Roll-off Bin(s) for Gabbs**

Rental of an additional roll-off bin costs approximately \$840 per month. Purchasing bins for locations in rural areas and then having a truck come by and drop off an empty bin and pick up a full bin on a regular schedule may be a better option.

### **8.5 Tonopah Landfill Household Hazardous Waste Management Implementation Measures**

#### **8.5.1 Low Cost (\$0-\$1,200 per Year)**

See § 5.5 County-Wide HHW Management Implementation Measures

#### **8.5.2 Mid-Range Cost (\$1,201-\$25,000 per Year)**

See § 5.5 County-Wide HHW Management Implementation Measures

#### **8.5.3 High Cost (\$25,001+ per Year)**

See § 5.5 County-Wide HHW Management Implementation Measures

## **9 Conclusion**

Nye County has produced this Plan, with the cooperation of the named communities and citizens of Nye County. The County can create and implement portions of this Plan; however successful implementation requires the commitment and dedication of the members of the communities. Communities willing and able to identify a point of contact are invited to provide suggestions as to how the County can assist them in their efforts to reduce solid waste transported to the landfill servicing their area. Minimizing or eliminating household hazardous waste from our landfills means healthier landfills, prevents a major source of groundwater contamination from our system, and extends the life of the landfills. Due to the expense and great difficulty in



identifying and finding new landfill locations, extending the life of current landfills is a significant savings.

## 10 Sources

Androscoggin Valley Council of Governments. *Lessons Learned from Four Years of Regional Household Hazardous Waste Collections*. Auburn, Maine: Androscoggin Valley Council of Governments, February 1999. [http://www.avcog.org/documents/Lessons\\_Learned\\_Report.pdf](http://www.avcog.org/documents/Lessons_Learned_Report.pdf) (accessed May 31, 2011).

Barbalace, Kenneth L. "USDOT Hazardous Materials Transportation Placards." <http://environmentalchemistry.com/yogi/hazmat/placards/> (accessed May 31, 2011).

Bernalillo County Office of Environmental Health. *Household Hazardous Waste*. Albuquerque, New Mexico: Bernalillo County Office of Environmental Health. [http://www.bernco.gov/upload/images/environmental\\_health/jim.pdf](http://www.bernco.gov/upload/images/environmental_health/jim.pdf) (accessed May 31, 2011).

Biomass Energy Centre. *What is Biomass?* Biomass Energy Centre, 2011. [http://www.biomassenergycentre.org.uk/portal/page?\\_pageid=76,15049&\\_dad=portal&\\_schema=PORTAL](http://www.biomassenergycentre.org.uk/portal/page?_pageid=76,15049&_dad=portal&_schema=PORTAL) (accessed May 31, 2011).

Burgert, Phil. "Recycling Programs Evolve in Rural Settings." *WasteAge* (November 1, 1993). [http://login.wasteage.com/wall.aspx?ERIGHTS\\_TARGET=http%3A%2F%2Fwasteage.com%2Fmag%2Fwaste\\_recycling\\_programs\\_evolve%2F](http://login.wasteage.com/wall.aspx?ERIGHTS_TARGET=http%3A%2F%2Fwasteage.com%2Fmag%2Fwaste_recycling_programs_evolve%2F) (accessed May 31, 2011).

C&S Waste Solutions. "C&S Waste Solutions." 2011. [http://library.ucf.edu/Rosen/guide\\_chicago.php#book2](http://library.ucf.edu/Rosen/guide_chicago.php#book2) (accessed May 31, 2011).

CalRecycle. "Hazardous Products in Your Home," image file, <http://www.calrecycle.ca.gov/HomeHazWaste/Outreach/Posters/Home.jpg> (accessed May 31, 2011).

City of Albuquerque. "Household Hazardous Waste." 2011. <http://www.cabq.gov/envhealth/householdwaste.html> (accessed May 31, 2011).

City of Barstow. "Household Hazardous Waste." 2010. <http://www.barstowca.org/site/index.php/household-hazardous-waste> (accessed May 31, 2011).

City of Houston. "Household Hazardous Waste." 2011. <http://www.houstontx.gov/solidwaste/hhw.html> (accessed May 31, 2011).

City of Logan. "Household Hazardous Waste." [http://www.loganutah.org/Enviromental%20Dept/Landfill/household\\_waste.cfm](http://www.loganutah.org/Enviromental%20Dept/Landfill/household_waste.cfm) (accessed May 31, 2011).



City of Miami. *Are You Poisoning Your Water?* Miami, Oklahoma: City of Miami. [http://www.miamiok.org/departments/publicworks/pw\\_solidwastepages/hazardouswaste.pdf](http://www.miamiok.org/departments/publicworks/pw_solidwastepages/hazardouswaste.pdf) (accessed May 31, 2011).

City of Napier. "Household Hazardous Waste." 2011. <http://www.napier.govt.nz/index.php?pid=298> (accessed May 31, 2011).

City of Phoenix. *Household Hazardous Products Disposal or Alternatives*. Phoenix, Arizona: City of Phoenix Public Works Department. [http://phoenix.gov/webcms/groups/internet/@inter/@dept/@pubworks/@garb/@hhw/documents/web\\_content/pwd\\_hhw\\_alternatives.pdf](http://phoenix.gov/webcms/groups/internet/@inter/@dept/@pubworks/@garb/@hhw/documents/web_content/pwd_hhw_alternatives.pdf) (accessed May 31, 2011).

City of Phoenix. "Household Hazardous Waste." 2011. <http://phoenix.gov/publicworks/garbage/hazwaste/index.html> (accessed May 31, 2011).

City of Rio Rancho. "Household Hazardous Waste Disposal." 2011. <http://www.ci.riorancho.nm.us/index.aspx?NID=712> (accessed May 31, 2011).

City of Scottsdale. "Household Hazardous Waste Disposal Options." 2011. <http://www.scottsdaleaz.gov/recycle/hhwguidelines> (accessed May 31, 2011).

City of Tucson. "Disposing of Household Hazardous Waste." 2011. <http://cms3.tucsonaz.gov/es/content/household-hazardous-waste> (accessed May 31, 2011).

City of Tucson. "Residential Recycling." 2011. <http://cms3.tucsonaz.gov/es/customer-services-residential-recycling> (accessed May 31, 2011).

County of Santa Clara Department of Environmental Health. "Hazardous Waste Recycling and Disposal." 2011. <http://www.sccgov.org/portal/site/deh/agencychp/?path=%2Fv7%2FEnvironmental%20Health%20Department%20of%20DEP%29%2FHazardous%20Materials%20Compliance%20Division%2FHousehold%20Hazardous%20Waste%20Home> (accessed May 31, 2011).

County of Santa Clara Environmental Resources Agency. "Hazardous Waste Element." In *Integrated Waste Management Program*. San Jose, California: County of Santa Clara Environmental Resources Agency, October 1994. [http://www.sccgov.org/SCC/docs%2FIntegrated%20Waste%20Management%20DIV%29%2FAttachments%2FIWM%20Source%20Red\\_Recy\\_HHW%20ElementHHWSection.pdf](http://www.sccgov.org/SCC/docs%2FIntegrated%20Waste%20Management%20DIV%29%2FAttachments%2FIWM%20Source%20Red_Recy_HHW%20ElementHHWSection.pdf) (accessed May 31, 2011).

Don't Trash Nevada. "Household Hazardous Waste." [http://www.donttrashnevada.org/haz\\_waste\\_house.htm](http://www.donttrashnevada.org/haz_waste_house.htm) (accessed May 31, 2011).

Douglas County Green Partners. *Douglas County Recycle/Reuse Resource Guide*. Douglas County, Arizona: Douglas County, April 2011.



[http://www.douglas.co.us/cpsd/documents/DC\\_Recycle\\_Reuse\\_Guide.pdf](http://www.douglas.co.us/cpsd/documents/DC_Recycle_Reuse_Guide.pdf) (accessed May 31, 2011).

Earth911. "Find Recycling Centers and Learn How to Recycle." 2011. <http://earth911.com/> (accessed May 31, 2011).

Earth911, "North American Glass Cullet Market," image file, <http://earth911.com/wp-content/uploads/2009/06/O-I-Cullet-Recycling.jpg> (accessed May 31, 2011).

Egyptian Environmental Affairs Agency. "Achievements and Planned Activities for (2000-2001)." <http://www.eaa.gov.eg/english/main/accomp5.asp> (accessed May 31, 2011).

Egyptian Environmental Affairs Agency. "Hazardous Materials and Wastes." In *Annual Report 2007*, 116-126. January 2008. <http://www.eaa.gov.eg/english/reports/achivements2007-EN/13-hazardous.pdf> (accessed May 31, 2011).

Environmental Protection Agency. *A Manual for One-Day Community Collection Programs*. Washington, D.C.: Environmental Protection Agency, August 1993. <http://www.epa.gov/osw/consERVE/materials/pubs/manual/r92026.pdf> (accessed May 31, 2011).

Environmental Protection Agency. *Be Smart*. Washington, D.C.: Environmental Protection Agency, October 2006.

Environmental Protection Agency. *EPA Hazardous Waste Codes for Waste Streams Commonly Generated by Small Quantity Generators*. Washington, D.C.: Environmental Protection Agency. <http://www.epa.gov/osw/hazard/generation/sqg/handbook/insert.pdf> (accessed May 31, 2011).

Environmental Protection Agency. "Household Hazardous Waste." December 1, 2010. <http://www.epa.gov/osw/consERVE/materials/hhw.htm> (accessed May 31, 2011).

Environmental Protection Agency. "Scrap Tires in Region 9." May 3, 2011. <http://www.epa.gov/region9/waste/solid/tires/index.html> (accessed May 31, 2011).

Environmental Protection Agency. *Sure, Your Home is Clean...* Washington, D.C.: Environmental Protection Agency, October 2006.

Freecycle. "The Freecycle Network." 2010. <http://www.freecycle.org/> (accessed May 31, 2011).

Gertman, Richard and Susan Kinsella. *Single Stream Recycling Best Practices Manual*. California: California Department of Conservation, February, 2007. <http://www.conservatree.org/learn/SolidWaste/BestPracticesManual021407.pdf> (accessed May 31, 2011).

ICLEI Global. "Local Governments for Sustainability." 2008. <http://www.iclei.org/> (accessed May 31, 2011).



Integrated Waste Management Authority. "Proper Disposal of Household Hazardous Waste," San Luis Obispo County. [http://www.iwma.com/householdhaz/disposal\\_chart.html](http://www.iwma.com/householdhaz/disposal_chart.html) (accessed May 31, 2011).

Larimer County. "Household Hazardous Wastes." 2011. <http://www.larimer.org/solidwaste/haz.htm> (accessed May 31, 2011).

League of Women Voters of Albany County, New York. *Household Hazardous Waste Disposal and Alternatives Chart*. Albany, New York: New York State Department of Environmental Conservation.

Ministry for the Environment. "Hazardous Wastes." 2011. <http://www.mfe.govt.nz/issues/waste/hazardous/index.html> (accessed May 31, 2011).

Monterey Regional Water Pollution Control Agency. *Household Hazardous Waste Chart Disposal Methods*. Monterey, California: Monterey Regional Water Pollution Control Agency. <http://www.mrwpc.org/downloads/hhw.pdf> (accessed May 31, 2011).

National Center for Manufacturing Sciences. "Nevada Hazardous Waste/RCRA Resources." <http://www.envcap.org/statetools/hzrl/hwr2001.cfm?st=NV> (accessed May 31, 2011).

Nevada Department of Agriculture. "Safely Dispose of Waste Pesticides." Nevada Department of Agriculture. [http://agri.nv.gov/Brochures/Safely\\_Dispose\\_of\\_Waste\\_Pesticides.pdf](http://agri.nv.gov/Brochures/Safely_Dispose_of_Waste_Pesticides.pdf) (accessed May 31, 2011).

Nevada Division of Environmental Protection. *Fact Sheet – Household Hazardous Waste Permanent Collection*. Carson City, Nevada: State of Nevada Department of Conservation and Natural Resources, November 1993. [http://ndep.nv.gov/bwm/Docs/HHWCollectionFacility\\_FactSheet.pdf](http://ndep.nv.gov/bwm/Docs/HHWCollectionFacility_FactSheet.pdf) (accessed May 31, 2011).

Nevada Division of Environmental Protection. *Guidance Document – Waste Tire Management at Disposal Facilities*. Carson City, Nevada: State of Nevada Department of Conservation and Natural Resources, January 3, 2006. [http://ndep.nv.gov/BWM/Docs/TireManage\\_Guidance.pdf](http://ndep.nv.gov/BWM/Docs/TireManage_Guidance.pdf) (accessed May 31, 2011).

Nevada Division of Environmental Protection. "Hazardous Waste Management." February 23, 2011. <http://ndep.nv.gov/bwm/hazard.htm> (accessed May 31, 2011).

Nevada Division of Environmental Protection. "Nevada Recycles." April 12, 2011. <http://nevadarecycles.gov/> (accessed May 31, 2011).

Nevada Division of Environmental Protection. *Waste Tire Management Plan*. Carson City, Nevada: State of Nevada Department of Conservation and Natural Resources, September 1994. <http://ndep.nv.gov/BWM/Docs/TirePlan.pdf> (accessed May 31, 2011).



Optimist Group, “E-Waste Process,” image file, <http://ewaste08.files.wordpress.com/2008/03/recycling-process.jpg> (accessed May 31, 2011).

Paper Tigers, “Fiber Recycling Process,” image file, [http://www.papertigers.com/images/fiber\\_recycling\\_process.gif](http://www.papertigers.com/images/fiber_recycling_process.gif) (accessed May 31, 2011).

Planed Overhaul, “Biomass Sources,” image file, [http://planetoverhaul.com/wp-content/uploads/2009/06/biomass\\_sources1.jpg](http://planetoverhaul.com/wp-content/uploads/2009/06/biomass_sources1.jpg) (accessed May 31, 2011).

Practice Greenhealth. “Nevada Regulated Medical Waste. <http://cms.h2e-online.org/ee/rmw/rmw-regulations/state-rmw-regulations/nevada> (accessed May 31, 2011).

Renewable Energy Policy Project, “Biomass Cycle,” image file, <http://www.repp.org/bioenergy/bioenergy-cycle-med2.jpg> (accessed May 31, 2011).

Safety Kleen Systems, Inc. “The Re-Refining Process.” Safety Kleen, <http://www.safety-kleen.com/services/OilSolutions/Pages/Re-RefiningProcess.aspx> (accessed May 31, 2011).

Siniard Stinnett, Debra. “10 Steps to Planning a Rural Regional Recycling Strategy.” WasteAge (January 1, 1996). [http://waste360.com/mag/waste\\_steps\\_planning\\_rural](http://waste360.com/mag/waste_steps_planning_rural) (accessed May 31, 2011).

Sonoma County Waste Management Agency. “Toxics Disposal.” In *Sonoma County Recycling Guide*. Sonoma County, California: Sonoma County Waste Management Agency. [http://www.recyclenow.org/pdf/recycle\\_guide10\\_pages\\_2-3\\_toxics.pdf](http://www.recyclenow.org/pdf/recycle_guide10_pages_2-3_toxics.pdf) (accessed May 31, 2011).

State of Israel Ministry of Environmental Protection. “Hazardous Substances.” January 25, 2010. [http://www.sviva.gov.il/Enviroment/bin/en.jsp?enPage=e\\_BlankPage&enDisplay=view&enDispWhat=Zone&enDispWho=Recycling\\_Reuse&enZone=HAZARDOUS&](http://www.sviva.gov.il/Enviroment/bin/en.jsp?enPage=e_BlankPage&enDisplay=view&enDispWhat=Zone&enDispWho=Recycling_Reuse&enZone=HAZARDOUS&) (accessed May 31, 2011).

State of Nevada. “Chapter 444 – Sanitation.” In *Nevada Administrative Code*. <http://www.leg.state.nv.us/nac/nac-444.html> (accessed May 31, 2011).

State of Nevada. “Chapter 444A – Programs for Recycling.” In *Nevada Administrative Code*. <http://leg.state.nv.us/nac/NAC-444A.html> (accessed May 31, 2011).

State of Nevada. “Chapter 459 – Hazardous Materials.” In *Nevada Administrative Code*. <http://www.leg.state.nv.us/nac/nac-459.html> (accessed May 31, 2011).

State of Nevada. “Chapter 444 – Sanitation.” In *Nevada Revised Statutes*. <http://www.leg.state.nv.us/nrs/NRS-444.html> (accessed May 31, 2011).



State of Nevada. "Chapter 444A – Programs for Recycling." In *Nevada Revised Statutes*. <http://www.leg.state.nv.us/nrs/NRS-444A.html> (accessed May 31, 2011).

State of Nevada. "Chapter 459 – Hazardous Materials." In *Nevada Revised Statutes*. <http://www.leg.state.nv.us/nrs/NRS-459.html> (accessed May 31, 2011).

State of Nevada Department of Motor Vehicles. *Commercial Driver's License Hazardous Materials Handbook*. Carson City, Nevada: State of Nevada Department of Motor Vehicles, April 2008. <http://www.dmvnv.com/pdf/forms/dlbookhazmat.pdf> (accessed May 31, 2011).

State of South Africa Department of Environmental Affairs. "Hazardous Waste." 2010. <http://soer.deat.gov.za/370.html> (accessed May 31, 2011).

Thomas Publishing Company. "Hazardous Waste Disposal Services Suppliers serving Nevada." 2011. <http://www.thomasnet.com/nevada/hazardous-waste-disposal-services-37241577-1.html> (accessed May 31, 2011).

Town of Gilbert. "Household Hazardous Waste." 2011. <http://www.gilbertaz.gov/pw/hhw.cfm> (accessed May 31, 2011).

University of Nevada, Reno. "Hazardous Waste Management." 2006. <http://unrbep.org/environmental-management/hazardous-waste-management/> (accessed May 31, 2011).

US Ecology, Inc. "Beatty, NV – Hazardous Waste Treatment & Disposal." 2007. <http://www.americaneecology.com/beatty.htm> (accessed May 31, 2011).

Water Environment Federation. *Household Hazardous Waste Chart*. 1987. <http://brgov.com/Dept/recycle/pdf/hazardouswastechart.pdf> (accessed May 31, 2011).

Winn, Karri. *Increasing Recycling and Related Green Business Opportunities for Northern Nevada Tribes*. San Rafael, California: Dominican University of California, October 2009. <http://epa.gov/region9/waste/tribal/waste-reduction/pdf/increased-recycling-nevada-tribes-2009.pdf> (accessed May 31, 2011).

YouRenew. "Buy and Sell Electronics, Sell Used Cell Phones, Sell iPhone." 2011. <http://www.yourenew.com/> (accessed May 31, 2011).

Zero Waste America. "Statistics." <http://www.zerowasteamerica.org/Statistics.htm> (accessed May 31, 2011).



## **Nye County Solid Waste Minimization and Household Hazardous Waste Management Plan**

### **Appendices**

<b>Appendix A – Advisory Team Members .....</b>	<b>29</b>
<b>Appendix B – Advisory Team Meeting Summaries .....</b>	<b>30</b>
<b>Appendix C – Community Workshops .....</b>	<b>36</b>
C1 – Summary of Community Workshops	
C2 – Questionnaire and Summary of Questionnaires	
C3 – Community Events	
C4 – Workshop PowerPoint Presentation	
<b>Appendix D – Website Reference Tables .....</b>	<b>61</b>
<b>Appendix E – Landfill Service Area Map .....</b>	<b>71</b>
<b>Appendix F – Flyers .....</b>	<b>72</b>
F1 – Be Smart	
F2 – Sure, your home is clean . . .	
F3 – Waste Pesticides	
<b>Appendix G – County Programs/Flyers .....</b>	<b>77</b>
G1 – Pharmaceuticals	
G2 – Used Oil Program	
<b>Appendix H – Advertising Vehicles .....</b>	<b>79</b>
<b>Appendix I – Consumer Reduction Tips .....</b>	<b>81</b>



---

## Appendix A Advisory Team Members

- **David Fanning (Nye County Public Works)** –Director of Nye County Public Works.
- **Douglas “Stretch” Baker (Nye County Public Works)** - Oversees operations at the Tonopah Landfill and coordinates solid waste management in Northern Nye County.
- **Michael Genge (Nye County Public Works)** –Provides technical assistance and support to the Public Works Director.
- **Amy Fanning (Nye County Finance)** – Grants Administrator and Community Outreach resource.
- **Roger McRae (Nye County NWRPO)** - Certified Environmental Manager.
- **Kenneth Berg (Smoky Valley)** – Contractor providing solid waste collection and disposal services in Northern Nye County..
- **Bert Bertram (Beatty)** – Beatty resident.
- **Teola Brady (Yomba Shoshone Tribe)** - Environmental Director of the Yomba Shoshone Tribe.
- **Robert Cameron (Amargosa Valley)** – Amargosa Valley resident.
- **Jan Cameron (Amargosa Valley)** – Amargosa Valley resident.
- **Ray Dummar (Gabbs)** – Gabbs resident.
- **James Eason (Tonopah)** –Tonopah Town Manager, actively involved at both the Town and County level.
- **Dean Horn (Hoss Disposal, Inc.)** - With Hoss Disposal, Inc., out of Winnemucca, Nevada.
- **Debbie O’Neil (Duckwater Shoshone Tribe)** - Key contact for the Tribe for the Solid Waste Management Update completed 2009.
- **Bob Ostrea (Department of Defense)** - Solid Waste Program Manager for the Tonopah Test Range (TTR).
- **John Shea (Southwest Environmental Services)** –Contractor providing solid waste collection and disposal services in Southern Nye County.
- **Albert Verrilli (Beatty Water and Sanitation District)** – Beatty resident.



---

## **Appendix B**

### **Summary of Advisory Team Meetings**

The Nye County Solid Waste Minimization and Household Hazardous Waste Management Plan Advisory Team met beginning July 2010 to research information, review existing programs, and develop a Plan for Nye County. Members of the Advisory Team included Nye County Public Works and Nye County Administration staff, community and tribal representatives, Pahrump Valley Disposal, Hoss Disposal (Nye County's Solid Waste Management contractors) and representatives from BEC Environmental, Inc. (Nye County's contractor for preparation of the Plan). Summaries of each meeting are provided below.

### **July 20, 2010**

#### ***Purpose***

The introductory meeting was intended to familiarize the Nye County Solid Waste Minimization and Household Hazardous Waste Management Advisory Team Members with the grant awarded to Nye County by the U.S. Department of Agriculture Rural Development (USDA RD) to develop a county-wide Solid Waste Minimization and Household Hazardous Waste Management Program. The purpose of the first and subsequent Advisory Team meetings was to ultimately develop the Plan for submission to the Board of County Commissioners (BOCC).

#### ***Issues Addressed***

Representatives from each of the targeted communities were asked to detail their current recycling capabilities and programs, issues they have encountered, and potential opportunities for increasing opportunities for recycling and proper disposal of household hazardous waste (HHW).

The Advisory Team also discussed the types of education and outreach efforts most likely to have a positive effect. Newspaper ads, signs at the landfill, and signs at farmers markets in each community were suggested as potential venues. Team members also suggested annual community clean-up days as potential venues. Team members discussed the need to have collection sites established to enable education and outreach efforts to be fully effective.

Current methods for enforcing waste management efforts were discussed. Nye County relies mainly on identifying desert dumping and getting the responsible party to clean up the site.

#### ***Targeted Achievements for Next Meeting***

Team members were asked to provide information regarding their community's needs and potential options for meeting those needs.

***Number of Advisory Team Members Present: 16***



---

## August 10, 2010

### *Purpose*

The meeting was to review current community needs and potential options for meeting those needs as the Advisory Team continued to develop the Plan for submittal to the BOCC.

### *Issues Addressed*

The Team reviewed information regarding tire use and disposal. Nye County has taken waste tires to Phoenix Recycling Technologies in Las Vegas, but is not mandated to do so. The biggest tire disposal problem identified was in Tonopah due to the number which had accumulated.

The Team also discussed potential contacts and options for the pick-up and disposal of hazardous waste and/or contaminated soils, including the U.S. Ecology facility in Beatty, and Clean Harbors, hazardous waste hauling and disposal companies. Costs and concerns regarding maintaining a permanent drop-off location versus one-day drop-off events were discussed, and Team members agreed one-day drop-off events were likely to cause fewer problems. Team members discussed holding one-day drop-offs in conjunction with existing community events.

Team members voiced concerns over whether the management options identified could be funded by this grant and were informed the grant was only to develop the Plan, and additional/alternative funds would be needed to implement the Plan.

There was discussion regarding what qualifies as Household Hazardous Waste (HHW), and existing programs to address HHW. Team members were advised containers used for storage of HHW were a concern for Public Works, not just the HHWs themselves, and the reasons for this. Community needs and priorities regarding HHW and Solid Waste Minimization (SWM) were also discussed.

The need for benchmarking and monitoring Plan success over time was also discussed.

### *Targeted Achievements for Next Meeting*

Team members were to obtain additional quotes from hazardous waste haulers for one-time events in each community. Team members would research whether or not pharmaceuticals qualified as HHW.

*Number of Advisory Team Members Present: 13*

## August 31, 2010

### *Purpose*

The meeting was to continue a review of current community needs and potential options for meeting those needs as the Advisory Team continued to develop the Plan for submittal to the BOCC.



---

### ***Issues Addressed***

The Team discussed progress on obtaining information from hazardous waste haulers as well as community input regarding current needs and community priorities for the Plan.

The Team determined the first step of the Plan should be to distribute educational materials so communities had a better idea of exactly what is HHW, and how it can be disposed. Educational materials should also discuss what cannot be accepted as HHW. Once education efforts were underway, the Team could potentially proceed with event(s) involving the actual drop-off of materials. Options and needs for one-day events were also discussed.

### ***Targeted Achievements for Next Meeting***

Team members were to review educational materials and edit them to meet local needs. The communities of Beatty and Tonopah would be contacted to determine where best to distribute materials. Team members would also contact local media outlets to determine rates for press releases and begin scheduling presentations to the Town Advisory Boards regarding the Plan.

***Number of Advisory Team Members Present: 12***

## **October 12, 2010**

### ***Purpose***

The meeting was to outline a timeline to produce the best possible Program to present to the Board of County Commissioners by September 30, 2011.

### ***Issues Addressed***

Clean Harbors provided an estimate of \$30,000 to \$40,000 per event for one-day HHW pick-ups and noted that additional costs for disposal could vary based on participation. Other HHW haulers indicated they would need an idea of how much HHW would be generated prior to providing an estimate for a one-time pick-up.

The need to canvass Nye County's southern communities to determine their needs and priorities regarding SWM and HHW management, as had been done for the northern communities, was discussed.

The Advisory Team reviewed and approved educational materials selected to date, as well as additional language to be included on Environmental Protection Agency (EPA) materials. The Advisory Team discussed potential community events where materials could be distributed, as well as the merits of electronic versus hard copy distribution.

Nye County Public Works and Administration representatives met with the Plan contractor subsequent to the adjournment of the main meeting to review the timeline for completion of the Plan and ensure that all USDA RD grant requirements had been clearly identified and would be met. During the discussion, it was determined the community workshops should be held



separately from Town Advisory Board meetings to ensure they were County, rather than Town, sponsored events.

### ***Targeted Achievements for Next Meeting***

Additional language for educational materials should be incorporated and the materials, along with sign-in and distribution sheets for community workshops to be distributed to and reviewed by Advisory Team members prior to the next meeting.

***Number of Advisory Team Members Present: 12***

## **December 1, 2010**

### ***Purpose***

The meeting was to review the information and recommendations in the Interim Summary Report and make decisions as to what subjects and materials to present at community workshops.

### ***Issues Addressed***

The Team members discussed possible workshop schedules for presenting the SWM and HHW management information to the communities. Specific recommendations for the information to be presented at, and facilitation of, the workshops were reviewed by the Advisory Team.

All participating Advisory Team members agreed on the materials distribution sheet and indicated a positive response for all the educational materials presented to them. Recycling rates and informational materials are also noted to be available on the website for Pahrump's landfill operator, C & S Waste Solutions.

The need to identify a main point of contact for Nye County, who could coordinate with outside agencies and Nye County communities regarding the Plan was discussed.

The Interim Summary Report for the Plan was presented.

### ***Targeted Achievements for Next Meeting***

Advisory Team members were to review the materials and information identified to date and make recommendations as to materials to be added or removed, as appropriate, for workshops in their communities.

***Number of Advisory Team Members Present: 11***

## **April 7, 2011**

### ***Purpose***

The meeting was to review summaries and questionnaires which had been distributed at community workshops to determine if additional questionnaires should be solicited, determine a single point of contact for each community, identify community outreach events and determine a timeline for presenting the program to the BOCC.

### ***Issues Addressed***



The Advisory Team discussed the results of questionnaires collected at the various community workshops and potential methods to obtain additional completed questionnaires from communities, by following up on previously distributed questionnaires and participating in community events to obtain additional responses. The discussion determined questionnaires should not be distributed outside of outreach meetings, and the Advisory Team would proceed based on information already collected. The Advisory Team further determined to wait to promote the Plan at community events until after the BOCC has approved the Plan

Individuals who may be interested in supporting the activities outlined in the Plan were discussed, including responsibilities for follow-up contacts with residents expressing interest in the subject.

The Advisory Team determined to present the Plan at the June 21, 2011, BOCC meeting in order to allow maximum time to implement recommendations from the Plan and track their effectiveness for reporting to USDA RD. The Advisory Team determined to provide the BOCC with a list of implementation options and their associated costs to choose from, in order to allow the greatest flexibility for implementation and ensure the Plan would be applicable in the long term. Advisory Team members were asked to attend the BOCC meeting for presentation of the Plan to answer any questions, if they were able.

In response to questions and concerns brought up at the community workshop in Gabbs, a medical waste program was established there. The Advisory Team determined to include information on the success in Gabbs in the Plan to demonstrate the type of progress that can be made.

#### ***Targeted Achievements for Next Meeting***

Advisory Team members were to determine whether they were able to attend the June 21, 2011, BOCC meeting. Advisory Team members would also contact residents interested in supporting activities under the Plan and Nye County's contracted solid waste haulers to determine their willingness to assist in tracking progress under the Plan.

***Number of Advisory Team Members Present: 8***

## **May 10, 2011**

### ***Purpose***

The meeting was to review and provide feedback on the draft Plan, to review and assign action items to be completed in the near term, and to review the timeline and proposed agenda item request for presenting the Plan to the BOCC.

### ***Issues Addressed***

The Advisory Team discussed potential representatives to serve as single points of contact for each community.



The Advisory Team determined the landfill operators should be contacted to obtain information for incorporation in the Plan. Requesting review of the Plan by the District Attorney's office was also discussed to aid in obtaining BOCC approval and adoption of the Plan.

Implementation options to be added to the Plan were discussed, as well as the appropriate categorization of options as no cost, low cost, mid-range cost, and high cost. The Advisory Team determined high cost implementation options should be included in the Plan, with the intent to identify and pursue funding sources for those options at a later date.

Specifics on landfill locations, size, and waste streams were also discussed for inclusion in the Plan.

#### ***Targeted Achievements for Next Meeting***

Advisory Team members were to contact organizational representatives and conduct research for information identified to be incorporated in the Plan.

***Number of Advisory Team Members Present: 7***

## **May 17, 2011**

#### ***Purpose***

The meeting was to review and receive feedback on the second draft of the Plan and to review and assign action items to be completed in the near term.

#### ***Issues Addressed***

The Advisory Team provided additional feedback on the Draft Plan. Appropriate limits for low, mid-range, and high cost implementation options were discussed.

Grant requirements for the Plan were also discussed.

#### ***Targeted Achievements for Next Meeting***

Comments would be incorporated and the Plan submitted for BOCC consideration for the June 21, 2011, meeting.

***Number of Advisory Team Members Present: 5***



## **Appendix C1**

### **Summary of Community Workshops**

#### **Purpose**

A series of public workshops were held in each of the six major communities in Nye County: Amargosa Valley, Beatty, Gabbs, Pahrump, Round Mountain, and Tonopah. A workshop was held in each community during the period January 25 through February 24, 2011, to introduce community members to the Plan Nye County was in the process of developing. Feedback and input from attendees regarding the needs of each of their respective communities were incorporated into the Plan for presentation to the Board of County Commissioners (BOCC).

#### **Content**

Public Works Staff made presentations at each workshop on behalf of the Advisory Team. Community representatives to the Advisory Team also participated in the workshops. Information presented at each community workshop is provided below:

#### ***Background***

One of the major considerations for Plan development was the Nevada requirement that counties whose population ranges from 40,000 to 100,000 residents develop recycling and household hazardous waste programs for their residents (Nevada Revised Statute 444A.040, section 2).

Nye County applied for, and was awarded a grant from the US Department of Agriculture (USDA) in 2009 to develop the Plan, intended to: 1) raise awareness among Nye County residents of management and disposal methods for all types of solid waste, including household hazardous waste; 2) identify certification, training and permits required to enact solid waste management needs; and 3) implement a Plan to allow collection and disposal of household hazardous waste.

A chronology of the Plan to date was provided, from the application to the USDA in 2008 for grant funding to develop the Plan, to the date of the community workshops.

#### ***Goals and Objectives for the Plan***

The goals for the Plan, as developed by the Advisory Team include:

- Enlisting constituent support throughout the County for adoption and implementation of a county-wide Solid Waste Minimization and Household Hazardous Waste Management Plan.
- Development and implementation of a sustainable county-wide Solid Waste Minimization and Household Hazardous Waste Management Plan.

Nye County intended to accomplish these goals through the following objectives:

- Develop an Advisory Team to review and recommend materials and approaches for the proposed Plan.



- Research and obtain existing educational materials regarding waste minimization techniques, composting, and the proper identification and disposal of solid waste.
- Communicate with each of the County's six population centers to obtain community support for development and implementation of the Plan through informational workshops.
- Develop a sustainable, written Plan and obtain BOCC approval of that Plan.
- Implement the Plan to reduce the per capita amount of solid waste disposed of in Nye County's three municipal landfills.

### ***Advisory Team***

The Advisory Team was established to review and recommend materials and approaches for the proposed Plan. Team members represent each of the six communities (Amargosa Valley, Beatty, Gabbs, Pahrump, Round Mountain, and Tonopah). The Advisory Team also performed research to determine what other communities were doing to minimize solid waste and manage household hazardous waste, and to identify outreach and education materials.

### ***Workshop Goals and Objectives***

The Team's workshop goals were to:

- Set up a series of six workshops (one in each of the six main communities) in which participants would be asked to provide comments on the materials and how to best implement the Plan, both within their respective communities and on a County-wide basis.
- Provide a summary report of the information obtained from comment forms and participants' comments during the workshops.
- In conjunction with Nye County Public Works, review and provide comments on all deliverables, including workshop agendas, educational materials and associated documents, and all reports.
- Modify educational materials and forms, as appropriate based on the feedback provided by workshop participants.

### ***Plan Components***

The Plan was to be comprised of two principal components; 1) solid waste minimization and 2) household hazardous waste management. Both the solid waste minimization and household hazardous waste management portions of the Plan would focus on raising public awareness through education. The solid waste minimization component also included a reduction in personal consumption and increased recycling efforts. The household hazardous waste management portion of the Plan also consisted of maximizing product use through sharing, researching the possibility of community collection events, identifying collection sites, and promoting the County's existing waste oil collection program.



The “Three R’s,” reduce, reuse, and recycle, were presented as the basic tool for waste minimization and household hazardous waste management. Steps to reduce waste were identified as:

- Looking for items that use a minimum of 30% post-consumer recycled content in their packaging.
- Purchasing the largest usable size of products. Buying in bulk or larger sizes is one of the easiest ways to save money and resources at the same time.
- Buying reusable items instead of disposable ones (i.e. using lunch boxes instead of brown bags, reusable mugs rather than Styrofoam or paper cups, and refillable containers in place of disposable ones).
- Bringing your own bags when shopping.

It was suggested residents could share leftover household products to reduce waste. This could be accomplished by contacting friends and neighbors with small quantities of leftover household products before disposing of the wastes.

Attendees were reminded of the Nye County Public Works’ existing waste oil collection program which maintains collection sites in Amargosa Valley, Beatty, Tonopah and Pahrump. Collected waste oil was used in furnaces that burn the oil to produce heat for the Nye County Road Department shops in Pahrump and Tonopah.

Household hazardous waste was defined for attendees as wastes that can react, catch fire, explode, or are toxic or harmful to humans or the environment. In order to qualify as household hazardous waste, quantities must be small, on the order of a quart or gallon, not larger quantities. Examples of household hazardous waste include: gasoline, oil, antifreeze, brake fluid, solvents, paints, thinners, stains, polish, household pesticides, poisons, fertilizers, lead batteries, fluorescent lights, electronics, treated wood, and pharmaceuticals. Pharmaceutical disposal proved to be an important issue to workshop participants.

### ***Educational Materials and Resources***

Materials and resources reviewed by the Advisory Team and approved for presentation at the workshops as potential educational materials and resources for Nye County’s Plan:

- Nye County Recycling Website - A page dedicated to recycling would be created and available for public viewing on Nye County’s website, including information from community feedback and information tailored to each community. Various links and recycling tips would be posted and continuously updated.
- “Be Smart” poster – A poster from the U.S. Environmental Protection Agency (EPA), which provides examples of common household hazardous wastes.\*
- Waste Pesticides pamphlet – A pamphlet from the USDA that presents guidance on how to safely dispose of waste pesticides free of charge.\*
- “Sure Your Home is Clean...” pamphlet – A pamphlet from the US EPA outlining household product handling and safety.\*



- Nevada Division of Environmental Protection website (NDEP) – A website from NDEP containing useful information and links related to recycling: [www.nevadarecycles.gov](http://www.nevadarecycles.gov).
- Earth 911 website – A website with the capability to give organizational representatives the option to access the site to add, update, and remove information on the site regarding the Nye County Plan.

\* Hard-copy pamphlets were provided to workshop participants.

Participants were advised the Plan must be approved by the BOCC before a Nye County website could be posted with a link to the Plan website directly from Nye County's main website.

Public Works identified the following as areas requiring input from workshop participants:

- Identifying one point of contact from each community (volunteer).
- Submitting suggestions to the point of contact who would work with the Team.
- Identifying how they could best keep their Plan in the residents' mind.
- Identifying what materials create the most hazards and the most bulk.
- Identifying what could be done immediately.
- Identifying what equipment (i.e. chipper shredders, etc.), supplies (i.e. program materials, recycling bins, etc.), or fixed assets (i.e. storage sheds, etc.) they might already have, or would need, for the Plan.

Participants were asked to complete the questionnaire at the workshop, as community feedback was very important to the successful implementation of the Plan, and to identify the need for additional grant funding. Participants were further advised their comments could be passed to community representatives for the Advisory Team, who would pass them on to the Advisory Team.

## **Community-Specific Information**

### ***Amargosa Valley***

The Amargosa Valley workshop was held on February 24, 2011, with two (2) presenters (David Fanning and Don Skalicky, Nye County Public Works), one (1) community representative Advisory Team member (Jan Cameron), and seven (7) community participants in attendance.

Cameron advised Amargosa Valley's recycling bins were located at the corner of Highway 373 and Mecca, operated by Pahrump Valley Disposal, and picked up and emptied when filled. The Amargosa Senior Center collected aluminum cans as a fundraiser, but their efforts have not been widely publicized.

Fanning discussed the importance of education, which is particularly effective with children in the community. Cameron added people often do not realize items are recyclable, such as the tubes from the center of paper towel rolls.

Fanning informed participants waste oil was collected at the Nye County Road Department maintenance yard, and that hours of operation are posted on the fence there.



A participant asked about the USDA pesticide collection, and was informed by Fanning the program is based in Reno, and collects items in Tonopah approximately every three months. Participants were further advised hazardous items that turn up in Tonopah regularly were explosives, which were picked up and taken back to Reno for disposal. If Amargosa Valley would like to have a pick up location for pesticides, Fanning advised the community could designate one in Amargosa Valley, and the materials would then be taken to Tonopah. A participant asked if a similar pick up location could be provided in Pahrump, and was informed it could be if there was a need in the community.

In addition to the educational materials identified, participants were informed the Advisory Team had identified public events in each community that would be good venues for public outreach and education. The two events listed for Amargosa Valley, Amargosa Days and the Independence Day Parade, were confirmed as good options for outreach purposes, as the largest events in the community. Participants were advised Jan and Robert Cameron were representatives to the Team from Amargosa Valley, and Jan Cameron added a participant was interested in becoming involved from the perspective of how Nye County Hazmat might be able to assist with classifying and sorting materials, and how the Hazmat Team might be able to be involved as a training exercise. The participant was advised the quantities being considered for collection would be too small to involve the Hazmat Team, and none of the communities had expressed a need for a large household hazardous waste collection event.

The following topics were also discussed by workshop presenters and participants during the course of the workshop:

- Advisory Team representatives offered to talk to the school principal regarding starting a school-based recycling collection program.
- A resident has been operating a website allowing residents to post notices about upcoming garage sales. They could be contacted to assess their willingness to host a page connecting people wanting to get rid of leftover household hazardous waste products with people who could use those products.
- A participant brought up the issue of the overuse of disposable dishes, which was also discussed at the Beatty workshop, and some participants there were going to talk to the school principal to see if the use of Styrofoam trays could be reduced in the schools.
- Meeting participants discussed the separate placement of the garbage and recycling bins in Amargosa Valley.
- It was stated people tend to throw garbage into recycling bins, especially when recycle bins are in close proximity to waste bins.
- Pahrump Valley Disposal and Hoss Disposal were named as being proactive in their recycling efforts.
- A participant asked if the person interested in opening a recycling facility at the Beatty hot springs had proceeded with his plans, and was advised Public Works was not aware of such plans.



Seven (7) packets of educational materials were given out at the workshop and four (4) completed questionnaires were received.

### ***Beatty***

The Beatty workshop was held on January 26, 2011, with two (2) presenters (David Fanning and Michael Genge, Nye County Public Works), one (1) community representative Advisory Team member (Albert Verrilli), and eight (8) community participants in attendance.

Nye County Public Works' existing waste oil collection program was highlighted by Fanning, and residents were advised they could bring their used motor oil to the Public Works maintenance yard between 9:00 am and 3:00 pm, Monday through Thursday.

A participant suggested there could be a link to the County's recycling website from the Town of Beatty's website. Verrilli requested information specific to Beatty be included on the website, with the example he had lived in Beatty for several years before becoming aware of Nye County's waste oil recycling program. Fanning noted Nye County Public Works had been seeking funding to improve the waste oil recycling program, but it was essential for communities to participate in the programs already in place, as the ability to measure the success of the Plan would be vital to obtaining future funding for additional implementation.

In addition to the educational materials identified, Fanning stated the Advisory Team had identified Beatty Days as a potential venue for public outreach and education regarding the Plan in Beatty. A workshop participant suggested the Fourth of July celebration as an additional outreach opportunity. During the subsequent discussion, it was stated both Beatty Days and the Fourth of July festival attract numerous people who do not live in Beatty, may not be the most targeted venues for residents of Beatty, and may turn out to be an inefficient use of resources for outreach and education. The Town's Turkey Bingo event or little league games were suggested as potentially more effective venues, as they attract many residents of Beatty, but not others from out of town.

Fanning, Genge, and numerous other workshop participants agreed there was not a sufficient turnout at the workshop to adequately address the topics of discussion, but presented some possible strategies for obtaining additional information. A participant suggested workshop participants could discuss the Plan with coworkers, friends, and neighbors to collect their ideas and concerns and report back. Fanning stated Public Works would like to have the information gathered by the end of February 2011. Verrilli suggested questionnaires could be sent to all of the post office boxes in Beatty, but a participant advised the Town had tried the same approach for another program and only received about ten responses. The participant suggested the possibility of holding a special Beatty Town Advisory Board meeting to address the issue prior to the end of February to collect feedback. The Board could then provide the information collected to Public Works.



Workshop participants agreed public education and outreach would be key to the Plan's success, and proposed ideas regarding outreach opportunities, including presenting materials at the schools and presenting materials in conjunction with Earth Day.

The following topics were also discussed by workshop presenters and participants during the course of the workshop:

- A one-day household hazardous waste collection events would be very costly; \$30,000 to \$50,000 per event, regardless of the quantity of material collected. There currently was no available budget for these events, and they would be difficult to justify in the current economic climate, especially for small communities.
- The schools used Styrofoam trays and plastic utensils to serve both lunch and breakfast, which creates a huge volume of waste. Perhaps the Styrofoam could be recycled, or another alternative could be explored.
- Some communities may need more than the one recycling drop-off location targeted.
- Beatty's existing recycling bin at the Rebel station seemed to be consistently full, so the community may need an additional drop-off location.
- Nye County was not planning to step in and take over providing recycling drop off locations for communities already served, but would try to address the individual needs of each community.
- In the past, when the transfer station was manned by County staff, it seemed there were fewer problems with people dropping off materials they were not supposed to drop off.
- Due to the limited hours for the waste oil drop off program, perhaps a partnership could be formed with a gas station (or other related business) that could participate as a sub-collector, and then transport the waste oil to the Public Works yard once per week. This would make the program more accessible for residents.
- The post office may be able to have a paper recycling bin, but has found in the past people still throw a small amount of trash in the recycling bin. Perhaps a better marked bin would be more effective.
- There was funding through this grant to complete the Plan, but no funding for implementation. Nye County would need to reapply for funding from the USDA after the Plan has been completed.
- A copy of the presentation would be sent to the Beatty Town office for distribution to workshop participants and any other interested parties.
- Nye County Public Works also collected car batteries in Beatty.
- Schools provide a great venue for outreach at all grade levels, as were other groups such as Boy Scouts, Girl Scouts, 4-H, etc.
- Initial efforts could be focused on obvious and basic community needs.
- Outreach and education may be the best way to get the Plan started, making residents aware of the existing opportunities for recycling and waste oil collection in Beatty.

Eight (8) packets of educational materials were given out at the workshop and one completed questionnaire was received.



## ***Gabbs***

The Gabbs workshop was held on February 9, 2011, with four (4) presenters (David Fanning, Michael Genge, Don Skalicky, and Douglas Baker, Nye County Public Works), two (2) community representative Advisory Team members (Ray Dummar and Jeff Donahue), and twelve (12) community participants in attendance.

A participant asked if the County was considering a drop-off location in Gabbs for recyclables, and Fanning stated the County was trying to get feedback from the community to assess the community's needs in regard to a drop-off. Another participant stated the school already collected plastic bottles and aluminum cans for recycling. A participant suggested individual bins for recyclables be provided, and was advised by Genge Public Works did not want to create a program that would compete with any programs already in place. The resident clarified they could just expand on what the school was already doing by putting bins at the school.

Fanning advised no events had been identified as potential public outreach venues for the Town of Gabbs, and participants did not provide any suggestions of events to be added. Fanning stressed participation from existing community groups such as schools, boy scouts, and girl scouts could be very effective for education and outreach. Baker advised people need to be aware of hazardous waste which could be very old and may contain compounds no longer in use or legal, such as DDT.

A participant asked what individuals should do about outdated or unused prescription medication. Fanning stated medications were already covered under County programs. Baker stated there was a representative who picked up pesticides, herbicides, and medications throughout the state and advised he would find out how residents could take part in the program. There was discussion about disposing of unwanted medications by flushing them down the toilet, and the medication would eventually make its way to the lined sewage ponds, where evaporation would occur. Genge stated the medications would eventually just become part of the sewage sludge at the bottom of the ponds. Skalicky stated even if medications dissolve, their chemical constituents remain, and Donahue clarified, for three to four months out of the year, some sewage was discharged from the lined sewage ponds to rapid infiltration basins. Fanning stated Public Works will coordinate getting the state representative to collect the unused medications. Skalicky stated Public Works would have to check with the Nye County Sheriff's Office for coordination, since medications collected could include narcotics.

Fanning asked participants to complete the questionnaire at the workshop, as community feedback was very important to the Plan. Genge added if any of the participants think of additional feedback at a later time, they could contact Public Works or Ray Dummar, who will then communicate with Public Works.

The following topics were also discussed by workshop presenters and participants during the course of the workshop:



- One participant asked where implementation funding would come from, and Fanning answered the County must establish priorities and identify community needs first, then the County will try to obtain the necessary funding for implementation.
- Fanning stressed the outcome of this planning effort will have implications for the County's application for the next round of USDA grant funding.
- A participant asked what wastes the County currently collects, and Baker advised the County disposes of waste oil and collects batteries, but those things must be transported to Tonopah. Baker also suggested collection and transport of those materials in rural communities like Gabbs could be one of the identified community needs.
- Baker stated there was some collection of medications at the Nye Regional Medical Center in Tonopah, and Public Works would find out how the Medical Center might be able to expand the program.
- A participant asked where to take old paint, and another participant offered to take old paint and used batteries.
- One participant asked where to take empty butane cigarette lighters, and she was told as long as they are empty, they could be included in household trash.

Fifteen (15) packets of educational materials were given out at the workshop and eleven (11) completed questionnaires were received.

### ***Pahrump***

The Pahrump workshop was held on January 25, 2011, with two (2) presenters (David Fanning and Michael Genge, Nye County Public Works), two (2) Advisory Team members (Amy Fanning and Roger McRae, Nye County), and fourteen (14) community participants in attendance.

A participant identified himself as being on the Environmental Board and suggested adding the Pahrump Town Cleanup Days to the event days.

David Fanning stressed the importance of helping ourselves within our communities and teaching our children as well.

David Fanning mentioned [www.freecycle.com](http://www.freecycle.com) as a potential tool and emphasized the importance of knowing what hazards are, how to properly dispose of them, and re-use through donation to neighbors and family to keep unnecessary items out of landfills. Participants in attendance stated the hazards of freecycle.com or giving items to a neighbor. A participant noted such a practice could be dangerous due to the recipient not realizing the dangers of the product they are accepting, for instance not realizing certain items cannot be combined because a chemical reaction could occur, or how to properly transport the donated item.

A participant suggested getting information into the K-12 curriculum, stating kids would be enthusiastic and guilt parents into recycling. He suggested creating a fun cartoon character to be seen around town to encourage children to tell their parents about recycling. Another participant stated it might be possible to present an overview of the County's Plan on one of the local television station's (Channel 41) community programs. The Nevada Cooperative Extension Service, the 4H and the Scouts were also suggested as potentially beneficial avenues for helping with community education efforts.



David Fanning advised participants of the cost of event collections. Participants asked why collection events were so expensive and David Fanning explained the hazardous materials must be collected by experts who must suit up and properly sort out the hazardous into containers to ensure there is no mixing of chemicals that could cause reaction. David Fanning stated no actual collections were in place, as the County was focusing on education, awareness and diversion first.

A participant stated the Plan needs to make it convenient for communities. Public Works must have a Plan ready, as once people realize they have hazardous waste in their household, they will immediately want to know where to take it.

A participant suggested looking up the [www.ICLEI.org](http://www.ICLEI.org) website, which helps counties and cities to develop programs.

Another participant expressed concerned about junk yards where cans of oil are leaking onto the ground and batteries are corroding with the potential for hazards to be washed off and into the ground by rain.

Seven (7) packets of educational materials were given out at the workshop, three (3) participants requested the materials via email and one (1) completed questionnaire was received. Comments were either overheard or directly made to staff after the workshop were that the questionnaire was too confusing for the average person and too long.

### ***Round Mountain***

There were no participants at the February 8, 2011, Round Mountain workshop, other than the four (4) presenters (David Fanning, Michael Genge, Don Skalicky, and Douglas Baker, Nye County Public Works). Therefore, no presentation was given, no educational packets were distributed, and no questionnaires were received at the meeting.

### ***Tonopah***

The Tonopah workshop was held on February 23, 2011, with two (2) presenters (Michael Genge and Don Skalicky, Nye County Public Works), and two (2) community participants in attendance.

A participant stated there would have to be different programs in different parts of the County, and Genge advised the state statute calls for a County-wide program, but the County may try to implement it differently in each community.

A participant asked who the Advisory Team members were, and Genge answered the members included: himself, Dave Fanning, Amy Fanning (Public Works), John Shea (Pahrump Valley Disposal), Stretch Baker (Nye County), a representative from Hoss Disposal, Jan and Robert Cameron (residents, Amargosa Valley), and Ray Dummar (resident, Gabbs).

A participant asked what sort of turnout they had at the various workshops, and Genge answered the turnout had varied between zero (0) in Round Mountain to fifteen (15) in Gabbs. Genge added the poor turnout in Round Mountain may have been due to the time the workshop was



held. A participant suggested the best time to get participation in Round Mountain may be in the evening.

A participant suggested Stretch Baker (Public Works) be the point of contact for Tonopah, since he was well known in the community and worked with Public Works and at the Tonopah landfill. A participant also added the Plan in Tonopah would be much different than the Plan in Pahrump, and Tonopah's remoteness imposes unique challenges to recycling, which would have a high cost. A participant added the approach must be pragmatic, and stated there is a gray area which exists where residents are not sure what materials constitute household hazardous waste versus what is acceptable to take to the landfill. The participant highlighted used paint, questioning when it is considered a household hazardous waste and when it is not.

Genge suggested one option may be a one-day collection event for household hazardous waste, but the estimate for the cost is very high. Skalicky stated the Plan can start with individual components, such as being able to drop off aluminum cans at the schools. A participant asked if Hoss Disposal is doing any recycling and Genge stated Hoss was not doing any recycling to his knowledge. Genge added unofficial scrap metal recycling is done at the Tonopah landfill by pulling the materials out as operators see them and stockpiling the material. A participant stated any recycling program should start at the landfill. Genge stated the issue is complex when it comes to household hazardous waste, because materials can't be stockpiled and must be controlled by properly trained staff.

Genge and Skalicky stressed the need for community input, as the needs of each community in the County were different. One participant stated there was already some recycling at the landfill, such as automotive batteries.

Genge asked participants to complete the questionnaire at the workshop, as community feedback was very important to the Plan, and stressed community participation was vital to applying for additional grant funding.

The following topics were also discussed by workshop presenters and participants during the course of the workshop:

- A participant asked about how to dispose of pesticides, and Genge stated the USDA has a free program to collect it. The participant asked how it would apply to Tonopah, such as whether an intermediate collection would be necessary prior to the USDA picking it up.
- Genge stated it had been difficult to obtain quotes from hazardous waste collectors for Nye County, and it took several months and numerous requests to get a price quote.
- A participant suggested a household hazardous waste collection could be done in conjunction with the annual clean up in Tonopah.

A participant identified desert dumping as a problem around Tonopah.

Two (2) packets of educational materials were given out at the workshop and two (2) completed questionnaires were received.



## Appendix C2

### Sample Questionnaire and Summary of Questionnaires

This questionnaire will be used to help develop the recycling and household hazardous waste program in Nye County. Your feedback is very important to the successful development of the program. You may remain anonymous, or provide your contact information at the end of the questionnaire.

- 1) What is your zip code? \_\_\_\_\_
- 2) How large is your household?  
1 person      2 people      3 people      4-5 people      more than 5 people

#### Household Hazardous Waste

- 3) Do you know where to take household hazardous waste?      Yes      No      Maybe
- 4) Do you know what items are considered household hazardous waste?      Yes      No      Maybe
- 5) Based on the information presented in this workshop, what kinds of household hazardous waste does your household have? (mark all that apply)
  - Used Oil
  - Paint
  - Solvents
  - Pesticides
  - Batteries (automotive)
  - Unknown
  - Other: \_\_\_\_\_
- 6) Approximately how much household hazardous waste (total) would you estimate your household has, in gallons? (circle one):  
 $\frac{1}{2}$       1      2-3      5      10      More than 10      Don't know      Other: \_\_\_\_\_
- 7) How would you like to receive information about household hazardous waste and recycling programs? (mark all that apply)
  - Mail
  - e-mail
  - Web site
  - Flyer in garbage or utility bill



- Local newspaper
  - Local television
  - I would not like to receive information
  - Other: \_\_\_\_\_
- 8) What information would be useful on a household hazardous waste web site? (mark all that apply)
- What materials are considered household hazardous waste.
  - Where I can take my household hazardous waste.
  - Other ways I can minimize my household hazardous waste.
  - Records of how much and what type of household hazardous waste has been collected.
  - Information about the household hazardous waste program in Nye County.
  - Information about the grant Nye County received to develop the program.
  - Other: \_\_\_\_\_
- 9) If there was a program in place, how often would you dispose of household hazardous waste?
- Once per month
  - Twice per year
  - Once per year
  - Less than once per year
  - Other: \_\_\_\_\_
- 10) How much would you be willing to pay for household hazardous waste disposal?
- \$5 per occurrence (as needed)
  - \$5 per month
  - \$5 per year
  - \$20 per year
  - More than \$20 per year
  - Nothing
  - Other: \_\_\_\_\_
- 11) What do you think is the best way to pay for a household hazardous waste program?
- Users pay when they drop off materials
  - Charge tipping fees at the landfill to pay for the program
  - Property tax assessment
  - Obtain grant funding
  - I do not want/would not participate in a household hazardous waste program, and don't want to pay for one.
  - Other: \_\_\_\_\_
- 12) How has your household disposed of household hazardous waste in the past? (mark all that apply)
- Mixed it in with regular trash



- Gave it to someone else to use
- Poured it down the drain
- Stored the waste (remained at home)
- Not sure
- Other: \_\_\_\_\_

### Recycling

13) Do you know where to take your recyclable materials?    Yes    No    Maybe

14) Do you know what items are accepted for recycling?    Yes    No    Maybe

15) Does your household already participate in recycling?

Yes, regularly                      yes, sometimes                      No

16) If you put your household's recyclables in (13 Gallon) kitchen-sized garbage bags, how many would you fill per week?

½      1      2      3      4      more than 4      Other: \_\_\_\_\_

17) What information would be useful on a Nye County recycling web site? (mark all that apply)

- What materials can be recycled
- Where I can take my recyclables
- Other ways I can minimize my household hazardous waste
- Information about the recycling program in Nye County
- Records of how much and what type of waste has been recycled
- Information about the grant Nye County received to develop the recycling program
- Other: \_\_\_\_\_

18) How much would you be willing to pay for a recycling program?

- \$5 per month
- \$5 per year
- \$20 per year
- More than \$20 per year
- Nothing
- Other: \_\_\_\_\_

19) What do you think is the best way to pay for a recycling program?

- Users pay when they drop off materials
- Charge tipping fees at the landfill to pay for the program
- Property tax assessment



- Obtain grant funding
- I do not want/would not participate in a recycling program, and don't want to pay for one.
- Other: \_\_\_\_\_

20) We are very interested in your insight and feedback. Do you have any additional comments or ideas? \_\_\_\_\_

\_\_\_\_\_

21) Would you like to participate in this program in an educational, training, or other capacity?

Yes    No    Maybe

You may remain anonymous, but if you would like to receive or provide further information, please include your contact information below:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone number: \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Thank You!**



## Summary of February and March 2011 Workshops and Questionnaires

Presenters: David Fanning, Michael Genge, Don Skalicky, Douglas Baker  
 Advisory Team Members: Jan Cameron, Jeff Donahue, Ray Dummer

	Amargosa Valley	Beatty	Gabbs	Pahrump	Round Mountain	Tonopah	Total
Workshop Date	2/24/11	1/26/11	2/9/11	1/25/11	2/8/11	2/23/11	
Attendees*	10	11	18	18	4	4	65
Questionnaires	4	1	11	1	0	2	19
Packets Distributed	7	8	15	7	0	2	39
<b>1. Zip Code</b>	89020	89003	89049	Various	89045	89049	
<b>2. Household Size:</b>							
1 Person	2	0	2	0	0	0	4
2 People	1	1	6	1	0	2	11
3 People	0	0	0	0	0	0	0
4-5 People	0	0	2	0	0	0	2
More	1	0	1	0	0	0	2
<b>3. Do you know where to take HHW?</b>							
Yes	1	0	1	0	0	0	2
No	1	0	5	1	0	1	8
Maybe	2	1	5	0	0	1	9
<b>4. Do you know what HHW is?</b>							
Yes	4	1	8	1	0	1	15
No	0	0	0	0	0	1	1
Maybe	0	0	3	0	0	0	3
<b>5. What HHW do you have?</b>							
Used Oil	2	1	7	0	0	0	10
Paint	3	1	9	1	0	2	16
Solvents	3	1	4	1	0	1	10
Pesticides	2	0	4	1	0	2	9
Batteries	3	1	5	1	0	0	10
Unknown	0	0	4	0	0	0	4
Other:Light Bulbs	1	0	0	0	0	0	1
Other: Expired medicine	0	0	1	0	0	0	1
Other: Dry cell batteries	0	0	1	0	0	0	1



	Amargosa Valley	Beatty	Gabbs	Pahrump	Round Mountain	Tonopah	Total
<b>6. How much HHW do you have (gallons)?</b>							
½	0	0	1	0	0	0	1
1	0	0	3	0	0	0	3
2-3	2	1	2	1	0	0	6
5	1	0	2	0	0	1	4
10	0	0	1	0	0	0	1
More than 10 gallons	0	0	1	0	0	0	1
Don't know	0	0	1	0	0	1	2
<b>7. How would you like to get information?</b>							
Mail	1	1	8	0	0	0	10
E-Mail	2	0	3	1	0	1	7
Web Site	2	0	0	0	0	1	3
Flyer	0	1	5	0	0	0	6
Newspaper	2	0	0	0	0	0	2
Television	0	0	1	0	0	0	1
Do not want	0	0	1	0	0	0	1
<b>8. What info is useful?</b>							
What is it?	4	1	6	0	0	1	12
Where can I take it?	4	1	10	1	0	1	17
Ways to minimize?	3	1	5	0	0	0	9
How much was collected?	1	1	2	0	0	0	4
Info on County program	3	1	3	1	0	1	9
Info about grant	1	0	4	1	0	0	6
<b>9. How often to dispose?</b>							
Once a month	0	0	6	0	0	0	6
Twice a year	4	1	5	0	0	0	10
Once a year	0	0	0	1	0	1	2
Less than Once a year	0	0	0	0	0	1	1
<b>10. \$\$\$ willing to pay for HHW?</b>							



	Amargosa Valley	Beatty	Gabbs	Pahrump	Round Mountain	Tonopah	Total
\$5 occurrence	1	0	4	0	0	0	5
\$5 month	0	0	1	0	0	0	1
\$5 year	1	0	2	1	0	0	4
\$20 year	0	0	0	0	0	1	1
> \$20 per year	0	0	1	0	0	0	1
Nothing	1	1	2	0	0	1	5
\$10 every 6 months	1	0	0	0	0	0	1
<b>11. Best way to pay?</b>							
At drop off	1	0	5	0	0	1	7
Tipping fees at landfill	0	0	0	0	0	1	1
Property tax	1	0	0	1	0	0	2
Grant funding	2	1	5	0	0	0	8
Would not participate	0	0	0	0	0	0	0
Other: We already pay through taxes	0	0	1	0	0	0	1
Other: Garbage fees	0	0	1	0	0	0	1
<b>12. Disposal in the past?</b>							
In regular trash	1	0	5	1	0	1	8
Gave away	1	0	2	0	0	0	3
Pour down drain	0	0	1	0	0	0	1
Stored at home	3	0	5	0	0	1	9
Not sure	0	0	1	0	0	0	1
Other: deliver to waste area	0	0	1	0	0	0	1
<b>13. Know where to take recycle materials?</b>							
Yes	4	0	2	1	0	0	7
No	0	0	5	0	0	1	6
Maybe	0	1	3	0	0	0	4
<b>14. Know what is accepted for recycle?</b>							
Yes	4	1	6	1	0	0	12
No	0	0	3	0	0	1	4
Maybe	0	0	1	0	0	0	1
<b>15. Do you participate in recycling now?</b>							
Regularly	3	1	3	0	0	0	7



	Amargosa Valley	Beatty	Gabbs	Pahrump	Round Mountain	Tonopah	Total
Sometimes	1	0	4	1	0	0	6
No	0	0	3	0	0	2	5
<b>16. How many 13 gal bags per week?</b>							
½	2	0	1	1	0	0	4
1	2	0	6	0	0	0	8
2	0	1	0	0	0	0	1
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
>4	0	0	0	0	0	0	0
Other: Once a year	0	0	0	0	0	2	2
Other: < 1/4	0	0	1	0	0	0	1
<b>17. Info you want on website?</b>							
What can be recycled	4	0	9	0	0	2	15
Where to take	4	0	9	0	0	2	15
Minimizing waste	2	0	6	0	0	1	9
Recycling program info	3	0	4	0	0	2	9
Records of waste recycled	0	1	3	0	0	1	5
Grant info	1	0	2	0	0	1	4
<b>18. \$\$\$ you would pay for recycling?</b>							
\$5 month	0	0	0	1	0	0	1
\$5 year	2	0	1	0	0	0	3
\$20 year	0	0	1	0	0	1	2
> \$20 year	0	0	0	0	0	0	0
Nothing	2	1	3	0	0	1	7
Other: Tipping where necessary	0	0	0	0	0	1	1
<b>19. Best way to pay for recycling?</b>							
At drop off	0	0	5	0	0	1	6
Tipping fees at landfill	0	0	1	0	0	0	1
Property tax	2	0	0	1	0	1	4
Grant funding	1	0	3	0	0	0	4
Would not participate	0	0	0	0	0	1	1
Other: \$ from recycled materials	1	1	1	0	0	0	3
Other: Should pay for	1	0	0	0	0	0	1



	<b>Amargosa Valley</b>	<b>Beatty</b>	<b>Gabbs</b>	<b>Pahrump</b>	<b>Round Mountain</b>	<b>Tonopah</b>	<b>Total</b>
itself							
Other: Don't know	1	0	0	0	0	0	1
<b>20. Additional feedback?</b>							
Reduce	1	0	0	0	0	0	1
Also glass bottles & tires	0	0	1	0	0	0	1
Recycling pick up at home	0	0	0	1	0	0	1
<b>21. Would you like to participate?</b>							
Yes	0	0	0	0	0	0	0
No	0	1	4	0	0	1	6
Maybe	3	0	4	1	0	1	9

\*Including Presenters and Advisory Team Members



### Appendix C3 Community Events

	<b>Amargosa Valley</b>	<b>Beatty</b>	<b>Pahrump</b>	<b>Tonopah</b>
<b>April 15-16</b>	Amargosa Days			
<b>April 22-23</b>			Biz Expo	
<b>April 22</b>			Earth Day	
<b>May 7-8</b>			Mae West Fest	
<b>May 27-30</b>				Jim Butler Days
<b>May 27-30</b>				Kid's Fishing Derby
<b>July 4</b>	Independence Day Parade		4th of July Celebration	4th of July BBQ
<b>Mondays, July through October</b>				Farmer's Market
<b>August 20-21</b>				Old Timers Picnic & Dance
<b>Sept 29-Oct 2</b>			Pahrump Fair & Festival	
<b>October 28-30</b>		Beatty Days		
<b>Nov 18-20</b>			Pahrump Pow-Wow	
<b>Friday &amp; Saturday, Year-</b>			Farmer's Market	



## Appendix C4 Workshop Presentation

**Nye County  
Solid Waste Minimization and  
Household Hazardous Waste  
Management Program**



Presented by  
Nye County Public Works



*Please!!!!*

- Sign in
- Take one packet of educational material to review
- Take one questionnaire to complete
- Turn off all your electronic devices

*Notice –  
this workshop is being tape-recorded*



**Why Are We Here  
???**



**NRS 444A.040 Section 2**

"2. The board of county commissioners of a county whose population is 40,000 or more but less than 100,000, or its designee:

(4) May make available for use in that county a program for the separation at the source of recyclable material from other solid waste originating from the residential premises and public buildings where services for the collection of solid waste are provided.

(5) Shall make available for use in that county a program for:

(1) The establishment of recycling centers for the collection and disposal of recyclable material where existing recycling centers do not carry out the purposes of the program established pursuant to paragraph (4).

(2) The disposal of hazardous household products which are capable of causing harmful physical effects if inhaled, absorbed or ingested. This program may be included as a part of any other program made available pursuant to this subsection."

Nye County Population: CY2000 32,978 and CY 2010 46,302

**Grant Opportunity**

In 2008 US Department of Agriculture office of Rural Development implemented a Solid Waste Management Grant Program. Nye County applied and was awarded a grant in 2009 to develop and implement a county-wide Solid Waste Minimization and Household Hazardous Waste Management Plan.



www.usda.gov

Nye County's purpose is to raise awareness among the residence of management and disposal methods for all types of solid waste including household hazardous waste, identify certification, training & permits required to enact solid waste program needs and implement a program to allow collection and disposal of Household Waste.

**Program Goals & Objectives**

Nye County's goals for its Solid Waste Management project are two-fold:

1. Enlist constituent support throughout the County for adoption and implementation of a county-wide Solid Waste Minimization and Household Hazardous Waste Program.
2. Develop and implement a sustainable county-wide Solid Waste Minimization and Household Hazardous Waste Management Program.

**Program Goals & Objectives cont.**

Nye County intends to meet its goal by accomplishing the following objectives.

1. Develop an Advisory Team to review and recommend materials and approaches for the proposed program.
2. Research and obtain existing educational materials regarding the waste minimization techniques, composting, and proper identification and disposal of solid waste.
3. Communicate with each of the County's six population centers to obtain community support for development and implementation of the Program through informational workshops.
4. Develop a sustainable, written program and obtain BoCC approval.
5. Implement the Program to reduce the per capita amount of solid waste that is disposed of in each of Nye County's three municipal landfills.

**Where  
we  
are  
today**

**Chronology of Program**

- December 2008 – County Applied for a Grant to Develop a Plan to Meet the Requirements of NRS 444.040.
- August 2009 – County Awarded a Grant from USDA Rural Development to Prepare a County Wide "Solid Waste Minimization and Household Hazardous Waste Management Plan" (1 Oct. 2009 – 30 Sept. 2010).
- February 2010 – Issued RFO Seeking Technical Assistance.
- June 2010 – Negotiated Agreement with a Environmental consultant who has Solid Waste experience to provide support in preparation of the plan.
- July 2010 – Established Community Advisory Team to Draft a "Community Sensative" Program Plan.
- September 2010 – Received a One-Year No Cost Time Extension to Complete the Program Plan.
- December 2010 – Advisory Team Completed Work on Elements Composing a Preliminary Solid Waste Management Plan.
- January/February 2011 – Community Workshops (Amargosa Valley, Beatty, Gibbs, Pahrump, Round Mountain and Tonopah) Seeking Public Input.



### Nye County Solid Waste Minimization and Household Hazardous Waste Advisory Team

An Advisory Team (a group of technical advisors including representatives from the Public Works Department, community leaders from each of the six target communities, volunteers, and solid waste management professionals) has been established to review and recommend materials and approaches for the proposed program. Six communities have been identified to be included in this effort. Those communities are: Amargosa Valley, Beatty, Gabbs, Pahrump, Smoky Valley, and Tonopah.



### Team Actions

- The Team is to set up a series of six workshops (one in each of the six main communities) in which participants will be asked to provide comments on the materials and how to best implement Programs within their respective communities and on a county-wide basis.
- A representative will be present at these workshops and will provide a summary report of the information obtained from comment forms, etc.
- The Team and Nye County Public Works will review and provide comments on all deliverables, including workshop agendas, materials and associated documents, and all reports.
- The Team will use those comments and reports to modify educational materials and forums as appropriate.

### Components of County Plan

- Solid Waste Minimization
- Household Hazardous Waste Management



### Solid Waste Minimization

- Awareness/Education
- Personal Consumption
- Recycling
  - o Identify Collection Locations
  - o Waste Separation at County Landfills as required by permit

### Household Hazardous Waste Management

- Awareness/Education
- Maximize Product Use Through Sharing
- Community Collection Events
- Identify Collection Sites
- County's Used Motor Oil Collection Program

### What is "Household Hazardous Waste"?

Wastes that can: **react, catch fire, or explode**

Wastes that are **toxic or harmful** to humans or the environment



Source: WY Rural Water Association, Household Hazardous Waste Management and Disposal Presentation

### What are some of the common wastes?

#### Liquids:

Gasoline, oil, antifreeze, brake fluid, solvents



Paints, thinners, stains, polish

Household pesticides, poisons, fertilizers



Source: WY Rural Water Association, Household Hazardous Waste Management and Disposal Presentation

### What are some of the common wastes?

#### Solids:

Household pesticides, poisons, fertilizers



Toxic metals: lead batteries, fluorescent lights (Hg), electronics (computer monitors & TV's)



Pharmaceuticals



Treated Wood



Source: WY Rural Water Association, Household Hazardous Waste Management and Disposal Presentation

### What are the basic tools for Waste Reduction and Household Hazardous Waste Management?

## Follow the 3 R's

Reduce  Reuse  
Recycle



### Reduce

Follow these four easy, environmentally friendly steps the next time you go shopping:

1. Look for items that use a minimum of 30% post-consumer recycled content in their packaging.
2. Buy the largest usable size. Buying in bulk or larger sizes is one of the easiest ways to save money and reduce at the same time.
3. Buy reusable items instead of disposable ones. Use lunch boxes instead of brown bags, reusable mugs rather than Styrofoam or paper cups, refillable containers in place of disposable ones.
4. BRING: bring your own bag when you shop.

*Saving money and resources is as easy as 1, 2, 3, 4!*

Shop Smart & Save Money for Reusable Items

Purchase fewer hazardous materials.  
Example - purchase rechargeable batteries.

### Reuse

Sharing House Hold Hazardous Wastes = Reuse

Share leftover household products. Contact friends and neighbors with left over products before disposing of House Hold Hazardous Wastes.

It's FREE!

*Findings to help us reduce or reuse and avoid waste is a primary the mission and a major part of our program.*

### Recycle

Simple steps can reduce volume.

Example - crush plastic bottles before throwing in recycle bin.

Many transfer stations and local businesses recycle products.

### Educational Material and Resources

The Advisory Team reviewed materials and resources and agreed the following would be presented at the Workshops as potential educational materials and resources for Nye County's program.

### Nye County website

A page dedicated to Recycling will be created and available for public viewing on Nye County's website. Various links and recycling tips will be posted and continuously updated.

### US Environmental Protection Agency

Be Smart poster

Approved literature will be available and distributed as educational materials at various events throughout Nye County.

### NV Department of Agriculture

Safely dispose of Waste Pesticides

### US Environmental Protection Agency

Sure your home is clean. But is it safe for your family?

### NV Division of Environmental Protection

has dedicated a website for use by Nevada residents

Various links such as recycling tips will be available on Nye County's website.



*Other Sources*

### Earth911.com

Their site has the capability to give organizational representatives the option to have access to add, update, and remove information on the site regarding Nye County's Program.

Nye County is invited to sign up for a Manage Earth 911 account.

### Community Events

*The Advisory Team compiled a list of Annual Community Events where educational materials could potentially be distributed.*

**Annual Valley**

- Independence Day Parade

**Weekly**

- Recycling Day

**Monthly**

- July 4th
- 8th Floor
- North Day
- Parade in Las Vegas
- Fourth of July Celebration
- Nevada Fall Festival
- Nevada Truck Show
- USA Energy Symposium

**Seasonal**

- Christmas Market
- Fourth of July Barbecue and Picnics
- Old Fashioned
- Old Timey Picnic
- Old Timey Picnic and Dance
- Spring Celebration

Please contact Public Works at (775) 751-6855 with additional Events to your Community.

### Topics of Discussion

- Members of each community identify one point of contact (volunteer).
- Members of each community will submit suggestions to point of contact who will work with the Team.
- Members of each community identify how they could best keep their Program in the residents' mind.
- Members of each community identify what materials create the most hazards and the most bulk.
- Members of each community identify what can be done immediately.
- Members of each community identify what equipment (i.e. chipper shredders), supplies (i.e. program materials, recycling bins, etc.), or fixed assets (i.e. storage sheds) they might already have or need for a Program.

### WHAT'S NEXT?

Based on Community Advisory Team Recommendations and Public Input through These Workshops, a County-wide **Solid Waste Minimization and Household Hazardous Waste Management Program Plan** will be Prepared and Presented to the Board of County Commissioners for their Approval and Implementation by the Summer of 2011.

Nye County  
Solid Waste Minimization and Household Hazardous Waste Management Program

**Please complete a Questionnaire**

This questionnaire will be used to help develop the recycling and household hazardous waste program in Nye County. Your feedback is very important to the successful development of the program.

Thank you - Your feedback is greatly appreciated.

Nye's future is in your hands.

**Please Recycle!**



## Appendix D Reference Tables

**Table 1: Solid Waste Minimization**

Title	Description	Source	Link
<b>Guidelines, Flyers and Fact Sheets</b>			
<b>Fiber Recycling Process</b>	Diagram of waste paper recycling process	Paper Tigers	<a href="http://www.papertigers.com/images/fiber_recycling_process.gif">http://www.papertigers.com/images/fiber_recycling_process.gif</a>
<b>North American Glass Cullet Market</b>	Diagram of sources and recycling rates for glass products in North America	Earth 911	<a href="http://earth911.com/wp-content/uploads/2009/06/O-I-Cullet-Recycling.jpg">http://earth911.com/wp-content/uploads/2009/06/O-I-Cullet-Recycling.jpg</a>
<b>The Re-Refining Process</b>	Diagram and explanation of Safety Kleen's process for re-refining used oil	Safety Kleen	<a href="http://www.safety-kleen.com/services/OilSolutions/Pages/Re-RefiningProcess.aspx">http://www.safety-kleen.com/services/OilSolutions/Pages/Re-RefiningProcess.aspx</a>
<b>Single Stream Recycling Best Practices Manual and Implementation Guide</b>	Guide outlining the best ways to promote and educate communities about single stream recycling programs.	Conservatree	<a href="http://www.conservatree.org/learn/SolidWaste/BestPracticesManual021407.pdf">http://www.conservatree.org/learn/SolidWaste/BestPracticesManual021407.pdf</a>
<b>Reports, Manuals and Handbooks</b>			
<b>Increasing Recycling and Related Green Business Opportunities for Northern Nevada Tribes</b>	Report on methods to increase recycling on reservations on northern Nevada.	Dominican University of California	<a href="http://epa.gov/region9/waste/tribal/waste-reduction/pdf/increased-recycling-nevada-tribes-2009.pdf">http://epa.gov/region9/waste/tribal/waste-reduction/pdf/increased-recycling-nevada-tribes-2009.pdf</a>
<b>Lists of Resources and Links to Resources</b>			
<b>C and S Waste Solutions</b>	Information on recycling and solid waste handling in Pahrump.	C and S Waste Solutions	<a href="http://candswaste.com/">http://candswaste.com/</a>
<b>Earth 911</b>	Information and resources on recycling, composting, questions and answers, etc.		<a href="http://earth911.com/">http://earth911.com/</a>
<b>Freecycle Network</b>	Website devoted to organizing a worldwide network of "gifting" groups, aiming to divert reusable goods from landfills.	Freecycle	<a href="http://www.freecycle.org/">http://www.freecycle.org/</a>



Title	Description	Source	Link
<b>ICLEI – Local Governments for Sustainability</b>	An international association of local governments and their associations that have made a commitment to sustainable development.	ICLEI Global	<a href="http://www.iclei.org/">http://www.iclei.org/</a>
<b>Nevada Recycles</b>	Information and links to information on recycling in Nevada and resources available locally.	Nevada Division of Environmental Protection (NDEP)	<a href="http://nevadarecycles.gov/">http://nevadarecycles.gov/</a>
<b>Waste &amp; Recycling: Data, Maps, &amp; Graphs</b>	Information and links to information on waste and recycling rates in the US. Use of Links as being considered for Nye County Public Works Website.	Zero Waste America	<a href="http://www.zerowasteamerica.org/Statistics.htm">http://www.zerowasteamerica.org/Statistics.htm</a>
<b>YouRenew.com</b>	Buy and sell electronics (cell phones, mp3 players, calculators, laptops, etc.	You Renew	<a href="http://www.yourenew.com/">http://www.yourenew.com/</a>
<b>Community Websites and Web-based Articles</b>			
<b>10 Steps to Planning a Rural Regional Recycling Strategy</b>	Article on a successful recycling program in rural areas. 10 Steps to Planning a Rural Regional Recycling Strategy.	WasteAge	<a href="http://wasteage.com/mag/waste_steps_planning_rural/">http://wasteage.com/mag/waste_steps_planning_rural/</a>
<b>Douglas County Recycle/ Reuse Resource Guide</b>	Recycling and reuse options available in Douglas County, Colorado – options are sorted by type of recyclable	Douglas County, Arizona	<a href="http://www.douglas.co.us/cpsd/documents/DC_Recycle_Reuse_Guide.pdf">http://www.douglas.co.us/cpsd/documents/DC_Recycle_Reuse_Guide.pdf</a>
<b>Materials Recovery Facility</b>	Article on definition and descriptions of Clean and Dirty and Wet MRFs.	Wikipedia	<a href="http://en.wikipedia.org/wiki/Materials_recovery_facility">http://en.wikipedia.org/wiki/Materials_recovery_facility</a>
<b>Residential Recycling</b>	Recycling tips and information for the Tucson Recycles recycling collection system.	City of Tucson, Arizona	<a href="http://cms3.tucsonaz.gov/es/customer-services-residential-recycling">http://cms3.tucsonaz.gov/es/customer-services-residential-recycling</a>
<b>Recycling Programs Evolve in Rural Settings</b>	Article on the progress made in developing recycling in rural areas. Have to register to get article. Available at BEC.	WasteAge	<a href="http://login.wasteage.com/wall.aspx?ERIGHTS_TARGET=http%3A%2F%2Fwasteage.com%2Fmag%2Fwaste_recycling_programs_evolve%2F">http://login.wasteage.com/wall.aspx?ERIGHTS_TARGET=http%3A%2F%2Fwasteage.com%2Fmag%2Fwaste_recycling_programs_evolve%2F</a>



**Table 2: Household Hazardous Waste Management**

<b>Title</b>	<b>Description</b>	<b>Source</b>	<b>Link</b>
<b>Guidelines, Flyers and Fact Sheets</b>			
<b>Are You Poisoning Your Water?</b>	Reference manual of basic information on Household Hazardous Waste including dangers, classifications and disposal options	City of Miami, Oklahoma	<a href="http://www.miamiok.org/departments/publicworks/pages/pw_solidwastepages/hazardouswaste.pdf">http://www.miamiok.org/departments/publicworks/pages/pw_solidwastepages/hazardouswaste.pdf</a>
<b>Be Smart (Flyer)</b>	Flyer showing common Household Hazardous Waste products	EPA	<a href="http://www.epa.gov/wastes/conservematerials/pubs/hhw-con.pdf">http://www.epa.gov/wastes/conservematerials/pubs/hhw-con.pdf</a>
<b>Guidelines for segregating collected materials</b>	Guidelines for acceptance of Household Hazardous Materials and lists of Household Hazardous Materials	NDEP	<a href="http://ndep.nv.gov/bwm/Docs/HHWCollectionFacility_FactSheet.pdf">http://ndep.nv.gov/bwm/Docs/HHWCollectionFacility_FactSheet.pdf</a>
<b>Hazardous Products in Your Home</b>	Diagram of common Household Hazardous wastes by location in the home with recommended handling	CalRecycle	<a href="http://www.calrecycle.ca.gov/HomeHazWaste/Outreach/Posters/Home.jpg">http://www.calrecycle.ca.gov/HomeHazWaste/Outreach/Posters/Home.jpg</a>
<b>Household Hazardous Products</b>	Guide to common Household Hazardous Waste including associated dangers, disposal methods and alternative products	City of Phoenix, Arizona	<a href="http://phoenix.gov/webcms/groups/internet/@inter/@dept/@pubworks/@garb/@hhw/documents/web_content/pwd_hhw_alternatives.pdf">http://phoenix.gov/webcms/groups/internet/@inter/@dept/@pubworks/@garb/@hhw/documents/web_content/pwd_hhw_alternatives.pdf</a>
<b>Household Hazardous Waste</b>	Fact sheet on disposal options for Household Hazardous Waste in Bernalillo County, New Mexico	Bernalillo County Office of Environmental Health	<a href="http://www.bernco.gov/upload/images/environmental_health/jim.pdf">http://www.bernco.gov/upload/images/environmental_health/jim.pdf</a>
<b>Household Hazardous Waste Chart</b>	Fact sheet on disposal options for Household Hazardous Waste – broken down by location in household	Water Environment Federation	<a href="http://brgov.com/Dept/recycle/pdf/hazardouswastechart.pdf">http://brgov.com/Dept/recycle/pdf/hazardouswastechart.pdf</a>
<b>Household Hazardous Waste Chart</b>	Single page chart of appropriate disposal methods for Household Hazardous Waste	Monterey Regional Water Pollution Control Agency	<a href="http://www.mrwpc.org/downloads/hhw.pdf">http://www.mrwpc.org/downloads/hhw.pdf</a>



Title	Description	Source	Link
<b>Household Hazardous Waste Disposal and Alternatives Chart</b>	Fact sheet on disposal options and preferred alternatives for common Household Hazardous Waste in New York	New York State Department of Environmental Conservation	<a href="http://www.dec.ny.gov/docs/materials_minerals_pdf/hhwcht.pdf">http://www.dec.ny.gov/docs/materials_minerals_pdf/hhwcht.pdf</a>
<b>How to Dispose of Unused Medicines</b>	Guideline for proper disposal of medicines and drugs	U.S. Food and Drug Administration	<a href="http://www.fda.gov/downloads/Drugs/ResourcesForYou/Consumers/BuyingUsingMedicineSafely/UnderstandingOver-the-CounterMedicines/ucm107163.pdf">http://www.fda.gov/downloads/Drugs/ResourcesForYou/Consumers/BuyingUsingMedicineSafely/UnderstandingOver-the-CounterMedicines/ucm107163.pdf</a>
<b>Proper Disposal of Household Hazardous Waste</b>	Chart on disposal options for Household Hazardous Waste in San Luis Obispo County, California	San Luis Obispo County Integrated Waste Management Authority	<a href="http://www.iwma.com/householdhaz/disposal_chart.html">http://www.iwma.com/householdhaz/disposal_chart.html</a>
<b>Sure, Your Home is Clean</b>	Flyer regarding use, storage and disposal of household products	EPA	<a href="http://www.epa.gov/osw/conservation/materials/pubs/hhw-safe.pdf">http://www.epa.gov/osw/conservation/materials/pubs/hhw-safe.pdf</a>
<b>Toxics Disposal</b>	Excerpt from Sonoma County Recycling Guide dealing with disposal of HHW	Sonoma County Waste Management Agency	<a href="http://www.recyclenow.org/pdf/recycle_guide10_pages_2-3_toxics.pdf">http://www.recyclenow.org/pdf/recycle_guide10_pages_2-3_toxics.pdf</a>
<b>What You Need to know About Mercury</b>	Brochure describing what Mercury is, where it comes from, and associated health concerns.	Nevada Division of Environmental Protection	<a href="http://ndep.nv.gov/mercury/docs/mercury_brochure_05.pdf">http://ndep.nv.gov/mercury/docs/mercury_brochure_05.pdf</a>
<b>Reports, Manuals and Handbooks</b>			
<b>A Manual for One-Day Community Collection Programs</b>	Handbook for use by communities in developing programs – focused on one-day drop-off programs	US Environmental Protection Agency	<a href="http://www.epa.gov/osw/conservation/materials/pubs/manual/r92026.pdf">http://www.epa.gov/osw/conservation/materials/pubs/manual/r92026.pdf</a>
<b>Household Hazardous Waste Element</b>	Santa Clara County's Plan Element for Household Hazardous Waste Management. This is an actual Plan for a Household Hazardous Program.	Santa Clara County, California	<a href="http://www.sccgov.org/SCC/docs%2FIntegrated%20Waste%20Management%20%28DIV%29%2FAttachments%2FIWM%20Source%20Red_Recy_HHW%20ElementHHWSection.pdf">http://www.sccgov.org/SCC/docs%2FIntegrated%20Waste%20Management%20%28DIV%29%2FAttachments%2FIWM%20Source%20Red_Recy_HHW%20ElementHHWSection.pdf</a>



Title	Description	Source	Link
<b>Lessons Learned from Four Years of Regional Household Hazardous Waste Collections</b>	Report on best practices learned from a four year Household Hazardous Waste Minimization and Collection pilot program in western Maine.	Androscoggin Valley Council of Governments	<a href="http://www.avcog.org/documents/Lessons_Learned_Report.pdf">http://www.avcog.org/documents/Lessons_Learned_Report.pdf</a>
<b>Lists of Resources and Links to Resources</b>			
<b>Don't Trash Nevada – Household Hazardous Waste</b>	Website on disposal options for Household Hazardous Waste in Nevada	Don't Trash Nevada	<a href="http://www.donttrashnevada.org/haz_waste_house.htm">http://www.donttrashnevada.org/haz_waste_house.htm</a>
<b>Earth 911</b>	Information and resources on managing household hazardous waste.	Earth 911	<a href="http://earth911.com/">http://earth911.com/</a>
<b>Household Hazardous Waste</b>	Website of general information on Household Hazardous Waste management	US Environmental Protection Agency	<a href="http://www.epa.gov/osw/conservation/materials/hhw.htm">http://www.epa.gov/osw/conservation/materials/hhw.htm</a>
<b>Community Websites and Web-based Articles</b>			
<b>Household Hazardous Waste</b>	City of Albuquerque's website on Household Hazardous Waste management. Example of website requiring update of every page.	City of Albuquerque, New Mexico	<a href="http://www.cabq.gov/envhealth/householdwaste.html">http://www.cabq.gov/envhealth/householdwaste.html</a>
<b>Household Hazardous Waste</b>	City of Barstow's website on Household Hazardous Waste management. Example of website requiring update of every page with "problem" links.	City of Barstow, California	<a href="http://www.barstowca.org/site/index.php/household-hazardous-waste">http://www.barstowca.org/site/index.php/household-hazardous-waste</a>
<b>Household Hazardous Waste</b>	Town of Gilbert's website on Household Hazardous Waste management. Example of website requiring update of every page.	Town of Gilbert, Arizona	<a href="http://www.gilbertaz.gov/pw/hhw.cfm">http://www.gilbertaz.gov/pw/hhw.cfm</a>
<b>Household Hazardous Waste</b>	County of Larimer's website on Household Hazardous Waste management.	County of Larimer, Colorado	<a href="http://www.larimer.org/solidwaste/haz.htm">http://www.larimer.org/solidwaste/haz.htm</a>



<b>Title</b>	<b>Description</b>	<b>Source</b>	<b>Link</b>
<b>Household Hazardous Waste</b>	City of Logan's website on Household Hazardous Waste management.	City of Logan, Utah	<a href="http://www.loganutah.org/Environmental%20Dept/Landfill/household_waste.cfm">http://www.loganutah.org/Environmental%20Dept/Landfill/household_waste.cfm</a>
<b>Household Hazardous Waste</b>	City of Houston's website on Household Hazardous Waste management.	City of Houston, Texas	<a href="http://www.houstontx.gov/solidwaste/hhw.html">http://www.houstontx.gov/solidwaste/hhw.html</a>
<b>Household Hazardous Waste</b>	City of Tucson's website on Household Hazardous Waste management. Example of website requiring update of every page.	City of Tucson, Arizona	<a href="http://esd.tucsonaz.gov/content/household-hazardous-waste">http://esd.tucsonaz.gov/content/household-hazardous-waste</a>
<b>Household Hazardous Waste</b>	City of Rio Rancho's website on Household Hazardous Waste management.	City of Rio Rancho, New Mexico	<a href="http://www.ci.riorancho.nm.us/index.aspx?NID=712">http://www.ci.riorancho.nm.us/index.aspx?NID=712</a>
<b>Household Hazardous Waste Collection Events</b>	City of Phoenix's website on Household Hazardous Waste management. Example of website requiring update of every page.	City of Phoenix, Arizona	<a href="http://phoenix.gov/publicworks/garbage/hazwaste/index.html">http://phoenix.gov/publicworks/garbage/hazwaste/index.html</a>
<b>Household Hazardous Waste Recycling &amp; Disposal</b>	County of Santa Clara's website on Household Hazardous Waste management.	County of Santa Clara, California	<a href="http://www.hhw.org">http://www.hhw.org</a>
<b>Household Hazardous Waste Disposal Options</b>	City of Scottsdale's website on Household Hazardous Waste management. Example of website requiring update of every page.	City of Scottsdale, Arizona	<a href="http://www.scottsdaleaz.gov/recycle/hhwguidelines">http://www.scottsdaleaz.gov/recycle/hhwguidelines</a>



**Table 3: Hazardous Waste**

Title	Description	Source	Link
<b>Lists of Resources and Links to Resources</b>			
<b>EPA Hazardous Waste Codes</b>	Listing of Hazardous Waste Codes common for Small Quantity Generators	US Environmental Protection Agency	<a href="http://www.epa.gov/osw/hazard/generation/sqg/handbook/insert.pdf">http://www.epa.gov/osw/hazard/generation/sqg/handbook/insert.pdf</a>
<b>Hazardous Waste Disposal Services in Nevada</b>	Listing of Nevada organizations offering hazardous waste disposal services	ThomasNet	<a href="http://www.thomasnet.com/nevada/hazardous-waste-disposal-services-37241577-1.html">http://www.thomasnet.com/nevada/hazardous-waste-disposal-services-37241577-1.html</a>
<b>RCRA/Hazardous Waste Resource Locator</b>	Website of frequently asked questions and links to information on hazardous waste handling in Nevada	National Center for Manufacturing Sciences	<a href="http://www.envcap.org/statetools/hzrl/hwr2001.cfm?st=NV">http://www.envcap.org/statetools/hzrl/hwr2001.cfm?st=NV</a>
<b>USDOT Hazardous Materials Transportation Placards</b>	Website with classifications and sample images of Department of Transportation-mandated placards for hazardous materials transport	Environmental Chemistry	<a href="http://environmentalchemistry.com/yogi/hazmat/placards/">http://environmentalchemistry.com/yogi/hazmat/placards/</a>
<b>Community Websites and Web-based Articles</b>			
<b>Beatty, NV – Hazardous Waste Treatment &amp; Disposal</b>	Website on US Ecology’s Hazardous Waste Treatment and Disposal facility in Beatty, Nevada	US Ecology	<a href="http://www.americanecology.com/beatty.htm">http://www.americanecology.com/beatty.htm</a>
<b>Hazardous Waste</b>	Wikipedia article on hazardous waste	Wikipedia	<a href="http://en.wikipedia.org/wiki/Hazardous_waste">http://en.wikipedia.org/wiki/Hazardous_waste</a>
<b>Hazardous Waste Management</b>	Website references for businesses on identification, training and handling of hazardous waste	University of Nevada Reno	<a href="http://unrbep.org/environmental-management/hazardous-waste-management/">http://unrbep.org/environmental-management/hazardous-waste-management/</a>
<b>Hazardous Waste Management</b>	Website of general information and resources on hazardous waste management in Nevada	NDEP – Bureau of Waste Management	<a href="http://ndep.nv.gov/bwm/hazard.htm">http://ndep.nv.gov/bwm/hazard.htm</a>
<b>Resource Conservation and Recovery Act</b>	Wikipedia article on the Resource Conservation and Recovery Act (RCRA)	Wikipedia	<a href="http://en.wikipedia.org/wiki/Resource_Conservation_and_Recovery_Act">http://en.wikipedia.org/wiki/Resource_Conservation_and_Recovery_Act</a>
<b>Walmart and Hazardous Waste</b>	Article on investigation of environmental violations by Walmart	Walmart Watch	<a href="http://walmartwatch.com/img/blog/hazardous_waste_fact_sheet.pdf">http://walmartwatch.com/img/blog/hazardous_waste_fact_sheet.pdf</a>
<b>Hazardous Waste Policies and Practices Internationally</b>			



Title	Description	Source	Link
<b>Chapter 13: Hazardous Materials and Wastes</b>	Chapter on achievements made in the management of Hazardous Materials and Waste by the Egyptian Environmental Affairs Agency	Egyptian Environmental Affairs Agency	<a href="http://www.ecaa.gov.eg/english/reports/achievements2007-EN/13-hazardous.pdf">http://www.ecaa.gov.eg/english/reports/achievements2007-EN/13-hazardous.pdf</a>
<b>Hazardous Substances</b>	General website and links on hazardous substances in Israel	Israel Ministry of the Environment	<a href="http://www.sviva.gov.il/Environment/bin/en.jsp?enPage=e_Bla nkPage&amp;enDisplay=view&amp;enDispWhat=Zone&amp;enDispWho=Recycling_Reuse&amp;enZone=HAZ ARDOUS&amp;">http://www.sviva.gov.il/Environment/bin/en.jsp?enPage=e_Bla nkPage&amp;enDisplay=view&amp;enDispWhat=Zone&amp;enDispWho=Recycling_Reuse&amp;enZone=HAZ ARDOUS&amp;</a>
<b>Hazardous Substances and Waste</b>	Website on achievements and plans related to hazardous substances and waste in Egypt	Egyptian Environmental Affairs Agency	<a href="http://www.ecaa.gov.eg/english/main/accomp5.asp">http://www.ecaa.gov.eg/english/main/accomp5.asp</a>
<b>Hazardous Waste</b>	General website on types and quantities of hazardous waste in South Africa	South Africa Department of Environmental Affairs	<a href="http://soer.deat.gov.za/370.html">http://soer.deat.gov.za/370.html</a>
<b>Hazardous Wastes</b>	General website and links on hazardous substances in New Zealand	New Zealand Ministry for the Environment	<a href="http://www.mfe.govt.nz/issues/waste/hazardous/index.html">http://www.mfe.govt.nz/issues/waste/hazardous/index.html</a>

**Table 4: Related Programs**

Title	Description	Source	Link
<b>Biomass</b>			
<b>Biomass Cycle</b>	Diagram of Biomass Life Cycle	Renewable Energy Policy Project	<a href="http://www.repp.org/bioenergy/bioenergy-cycle-med2.jpg">http://www.repp.org/bioenergy/bioenergy-cycle-med2.jpg</a>
<b>Biomass Sources</b>	Diagram of sources of Biomass	Planet Overhaul	<a href="http://planetoverhaul.com/wp-content/uploads/2009/06/biomass_sources1.jpg">http://planetoverhaul.com/wp-content/uploads/2009/06/biomass_sources1.jpg</a>
<b>What is Biomass?</b>	Fact sheet from Biomass Energy Centre's website	Biomass Energy Centre	<a href="http://www.biomassenergycentre.org.uk/portal/page?_pageid=76,15049&amp;_dad=portal&amp;_schema=PORTAL">http://www.biomassenergycentre.org.uk/portal/page?_pageid=76,15049&amp;_dad=portal&amp;_schema=PORTAL</a>
<b>Medical Waste</b>			
<b>Regulated Medical Waste</b>	Website of general information on classification and handling of regulated medical waste in Nevada	Practice Greenhealth	<a href="http://cms.h2e-online.org/ee/rmw/rmw-regulations/state-rmw-regulations/nevada">http://cms.h2e-online.org/ee/rmw/rmw-regulations/state-rmw-regulations/nevada</a>
<b>Pesticides</b>			



Title	Description	Source	Link
<b>Safely Dispose of Waste Pesticides</b>	Flyer on NDA's free program to dispose of waste pesticides	Nevada Dept of Agriculture	<a href="http://agri.nv.gov/Brochures/Safely_Dispose_of_Waste_Pesticides.pdf">http://agri.nv.gov/Brochures/Safely_Dispose_of_Waste_Pesticides.pdf</a>
<b>Waste Tires</b>			
<b>Scrap Tires in Region 9</b>	Website on issues with scrap tires in EPA Region 9	US Environmental Protection Agency	<a href="http://www.epa.gov/region9/waste/solid/tires/index.html">http://www.epa.gov/region9/waste/solid/tires/index.html</a>
<b>Waste Tire Management at Disposal Facilities</b>	Guidance document on requirements for waste tire disposal facilities in Nevada	NDEP	<a href="http://ndep.nv.gov/BWM/Docs/TireManage_Guidance.pdf">http://ndep.nv.gov/BWM/Docs/TireManage_Guidance.pdf</a>
<b>Waste Tire Management Plan</b>	Planning guide for waste tire management in Nevada	NDEP	<a href="http://ndep.nv.gov/BWM/Docs/TirePlan.pdf">http://ndep.nv.gov/BWM/Docs/TirePlan.pdf</a>
<b>Electronic Waste</b>			
<b>E-Waste Process</b>	Diagram of E-Waste handling process	Optimist Group	<a href="http://ewaste08.files.wordpress.com/2008/03/recycling-process.jpg">http://ewaste08.files.wordpress.com/2008/03/recycling-process.jpg</a>

**Table 5: Applicable Regulations**

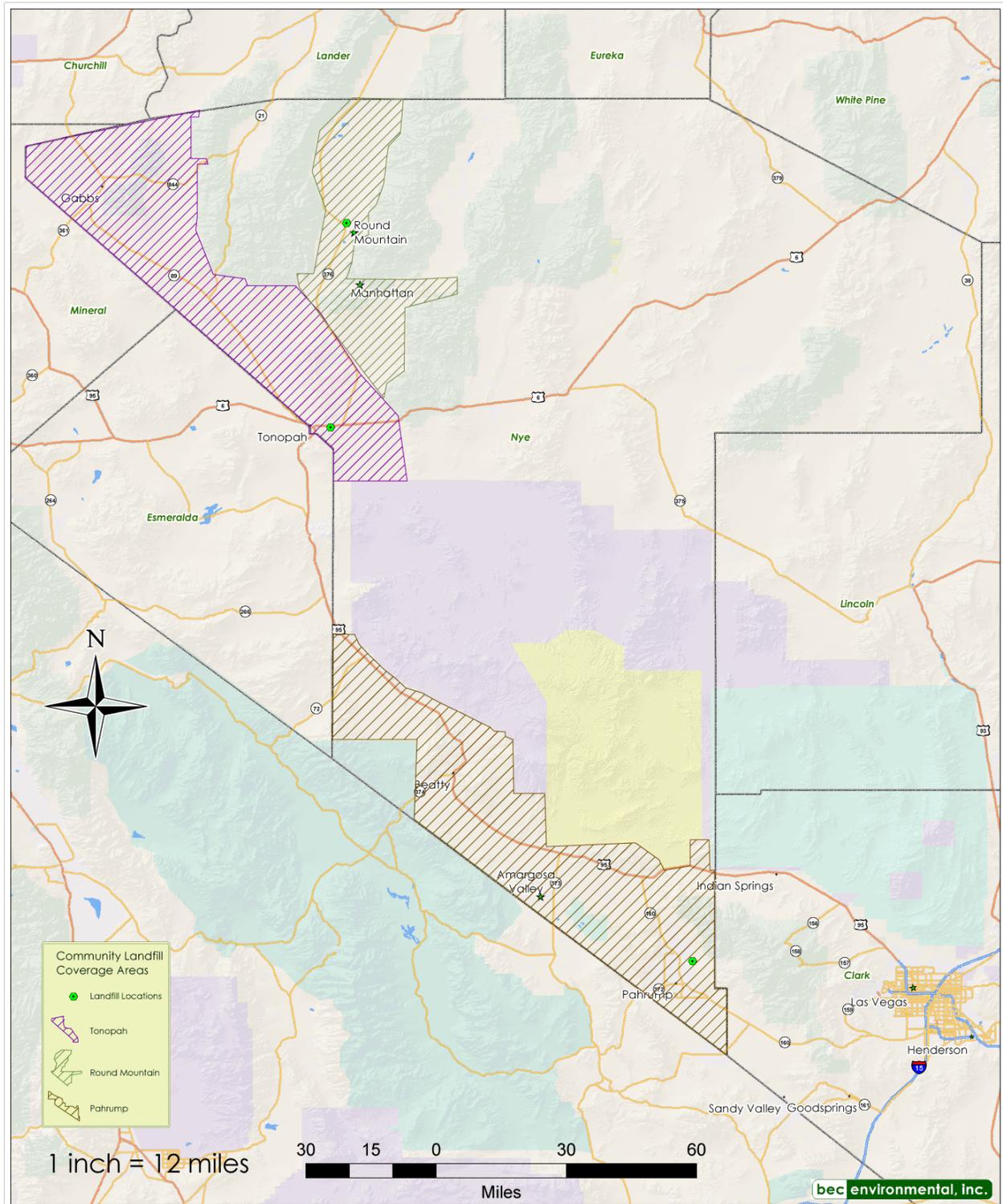
Title	Description	Source	Link
<b>Nevada Administrative Code</b>			
<b>Nevada Administrative Code 444 – Sanitation</b>	Nevada law dealing with the handling and disposal of solid waste	State of Nevada	<a href="http://www.leg.state.nv.us/nac/nac-444.html">http://www.leg.state.nv.us/nac/nac-444.html</a>
<b>Nevada Administrative Code 444A – Programs for Recycling</b>	Nevada law dealing with recycling of solid waste	State of Nevada	<a href="http://leg.state.nv.us/nac/NAC-444A.html">http://leg.state.nv.us/nac/NAC-444A.html</a>
<b>Nevada Administrative Code 459 – Hazardous Materials</b>	Nevada law dealing with the handling, storage and disposal of hazardous materials	State of Nevada	<a href="http://www.leg.state.nv.us/nac/nac-459.html">http://www.leg.state.nv.us/nac/nac-459.html</a>
<b>Nevada Revised Statutes</b>			
<b>Nevada Revised Statute 444 – Sanitation</b>	Nevada law dealing with the handling and disposal of solid waste	State of Nevada	<a href="http://www.leg.state.nv.us/nrs/NRS-444.html">http://www.leg.state.nv.us/nrs/NRS-444.html</a>



Title	Description	Source	Link
<b>Nevada Revised Statute 444A – Programs for Recycling</b>	Nevada law dealing with recycling of solid waste	State of Nevada	<a href="http://www.leg.state.nv.us/nrs/NRS-444A.html">http://www.leg.state.nv.us/nrs/NRS-444A.html</a>
<b>Nevada Revised Statute 459 – Hazardous Materials</b>	Nevada law dealing with the handling, storage and disposal of hazardous materials	State of Nevada	<a href="http://www.leg.state.nv.us/nrs/NRS-459.html">http://www.leg.state.nv.us/nrs/NRS-459.html</a>



## Appendix E Landfill Service Areas





Appendix F1  
Be Smart Poster

# BE SMART

Some household products contain ingredients that can harm you, your family and the environment.

- Drain Openers
- Oven Cleaners
- Automotive Oil and Fuel Additives
- Grease and Rust Removers
- Glue
- Bug and Weed Killers
- Mold and Mildew Removers
- Paint Thinners, Strippers and Removers



**ALWAYS READ AND FOLLOW THE LABELS BEFORE YOU USE ANY PRODUCT.  
NEVER MIX PRODUCTS TOGETHER. IN CASE OF POISONING, CALL 1-800-222-1222.  
FOR DISPOSAL INFORMATION, CALL EARTH 911 (1-877-EARTH-911)**

**Remember: Be safe. Be smart. Protect your family's health and your environment!**



Nye County is an Equal Opportunity Employer and Provider  
Photocopy of original distributed for public use by Nye County Public Works  
Department. For local information on this topic, contact (702) 334-3630 and



## Appendix F2

### Sure Your Home is Clean... but is it safe for your family?

**Be smart when you use, store, and dispose of household products.**



Did you know that the products you use for cleaning, carpentry,

auto repair and gardening can contain



ingredients that can harm you, your family and your environment?



These products may harm your children and pets, cause physical injury to sanitation workers if put out for regular trash pick-up, and contaminate septic tanks or pollute the ground water if poured down drains and toilets.

**Here's what you can do to safeguard your family, your home and your community...**

**The average home can have as much as 100 pounds of environmentally harmful products in the basement, garage and other storage areas. Make sure yours is safe...**



# Sure, your home is clean...



# but is it safe for your family?

**Be smart about using household products!**





## Always...



### ✓ READ the Label

Before you buy, always check the product labels. Look for labeling that reads "DANGER," "WARNING," "CAUTION," "TOXIC," "CORROSIVE," "FLAMMABLE," or "POISON." These warnings tell you if the product is harmful to you, your family and the environment, and how to use, store and dispose of it safely.

Pay close attention to the labels on:

- Drain Openers
- Oven Cleaners
- Automotive Oil and Fuel Additives
- Paint Thinners, Strippers and Removers
- Grease and Rust Removers
- Glues
- Bug and Weed Killers
- Mold and Mildew Removers

✓ **KEEP** products in their original containers and store them safely away from children and pets

✓ **DISPOSE** of household products safely

Many communities hold special collection days or have special drop-off sites for harmful household products. Contact your local trash service for help, call EARTH 911 (1-877-EARTH-911), or visit [www.earth911.org](http://www.earth911.org).

### ✓ TRY alternative products when available

For everyday tasks, try household products that are less harmful. Remember to follow the same rules about storing these products and never mix these products together.

- Glass Cleaner: Mix 1 tablespoon of vinegar or lemon juice in 1 quart of water.
- Toilet Bowl Cleaner: Use a toilet brush and baking soda or vinegar.
- Furniture Polish: Mix 1 teaspoon of lemon juice in 1 pint of vegetable oil.
- Rug Deodorizer: Sprinkle liberally with baking soda and vacuum after 15 minutes.
- Plant Spray: Wipe leaves with mild soap and water and rinse.
- Mothballs: Use cedar chips, lavender flowers, rosemary, mint, or white peppercorns.



## Never...

✗ Pour harmful household products down a sink, toilet or bathtub drain unless the products are made for that purpose

✗ Pour products like used oil or bug killer on the ground or into storm drains

✗ Store leftover products in food or beverage containers



## Appendix F3 Waste Pesticides

### Participation is Easy

First inventory the pesticides you wish to dispose of. List the name of the product (use “unknown” if you don’t know) also include the amount and state of the product. Use the following as an example:

Product	Amount	State
Chlordane	2 gallons	Liquid
Unknown	10 lbs	Dust

Next, contact the Nevada Department of Agriculture for an appointment. Usually, you will be asked to take waste pesticide to a NDOA storage facility. Don’t drop off pesticides at an NDOA office. Always use personal protective equipment (PPE) when handling pesticides.

### No Cost to Users

Funding for waste pesticide disposal comes from fees paid by manufacturers. All applicators including farmers, ranchers, licensed pest control operators (PCO’s) and other pesticide users including homeowners are eligible.



Las Vegas & Southern Nevada  
(702) 668-4590  
Reno and all other parts of Nevada  
(775) 353-3715  
[icarp@agri.state.nv.us](mailto:icarp@agri.state.nv.us)  
[www.agri.state.nv.us](http://www.agri.state.nv.us)

## Nevada Department of Agriculture *Safely dispose of* **WASTE PESTICIDES**



*Unwanted and unusable  
pesticides are disposed of*

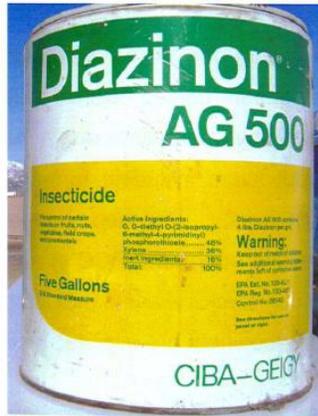
**Free of Charge**  
**(775) 353-3715**

p.1



## Prevent Environmental Contamination

Improper disposal of waste pesticides may result in surface or groundwater pollution. Nevada Department of Agriculture's pesticide waste disposal program gives pesticide users the opportunity to properly discard unwanted pesticide products. This is a safe way to protect the environment from pesticide pollution and contamination.



## Eliminate Hazards at Home and in the Workplace

Old pesticide containers will begin to deteriorate over time. Leaking containers can result in pesticide exposure to people, pets, wildlife, and the environment. Avoid costly clean ups or pesticide exposure by removing and disposing of unwanted pesticide products.

## Waste Pesticides

Unusable, unwanted and banned pesticides are waste pesticides. Many that are no longer used including DDT, chlorpyrifos, and diazinon are often disposed of through this program.

### Acceptable Products

- Insecticides
- Fungicides
- Herbicides
- Rodent baits
- Other pesticides

### Unacceptable products

- Batteries
- Motor Oil
- Antifreeze
- Paint
- Degreasers
- Pesticide rinsate\*

\*Pesticide rinsate should be applied to a site that is listed on the label.



## Appendix G1 Prescription Drug Drop Off Program

### Prescription Drug Drop Off –

Accepting all medications: prescription and over-the-counter from residential homes

Many people throw their expired medications into the garbage, and others tend to flush or pour medications down the drain. Not only are medications a health hazard if discovered by animals or humans in the trash; we now know that medicine can actually get into our soil and water, creating an environmental hazard.

### So what do you do with those expired medications?



If you have any medications that are out of date or are no longer needed and you want to dispose of them, please call or visit a drop off site in your area for further information:

### Southern Nye

#### Amargosa Valley

**Contact:** 775-372-5345  
**Drop off:** Nye County Sheriff's Office  
851 Farm Road  
Amargosa Valley, NV 89020

#### Beatty

**Contact:** 775-553-2380  
**Drop off:** Nye County Sheriff's Office  
426 C. Avenue South  
Beatty, NV 89003

#### Pahrump

*"Operation Medicine Cabinet"*  
**Contact:** 775-209-3851  
**Drop off:** Call to schedule a pick-up  
Nye County Sheriff's Office

### Northern Nye

#### Gabbs

**Contact:** 775-482-8101  
**Drop off:** Nye County Sheriff's Office  
101 Radar Road  
Tonopah, NV 89049

#### Round Mountain

**Contact:** 775-482-8101  
**Drop off:** Nye County Sheriff's Office  
101 Radar Road  
Tonopah, NV 89049

#### Tonopah

**Contact:** 775-482-8101  
**Drop off:** Nye County Sheriff's Office  
101 Radar Road  
Tonopah, NV 89049



## Appendix G2 Used Motor Oil Collection

### Nye County – Used Motor Oil Collection



Recycling used motor oil conserves a natural resource (oil) and is good for the environment too! Motor oil poured onto the ground or into storm drains, or tossed into trash cans (even in a sealed container) can contaminate and pollute the soil and groundwater. Recycling your used motor oil reduces this pollution threat.

#### So what do you do with your Used Motor Oil?



A program has been implemented where individuals (residential only) may drop off their used clean motor oil at designated sites for use by Nye County in heaters that burn the used motor oil. Qualified staff must test the oil to ensure it has not been contaminated and meets the requirements to properly burn in the heaters prior to accepting the donation.

*Please call or visit one of the Nye County Road Department sites listed below for quantity limitations and for further information:*

#### Amargosa Valley

Contact #: 775-372-5328  
Days/Hours: Mon – Thu / 3:30 p.m. – 4 p.m.  
Address: 871 E. Amargosa Farm Road



#### Beatty

Contact #: 775-553-2384  
Days/Hours: Mon – Thu / 3:30 p.m. – 4 p.m.  
Address: 450 A Avenue South

#### Pahrump

Contact #: 775-727-7883  
Days/Hours: Mon – Thu / 6 a.m. – 4 p.m.  
Address: 871 East Boothill Drive



#### Tonopah

Contact #: 775-482-7313  
Days/Hours: Mon – Thu / 7 a.m. – 3:30 p.m.  
Address: 377 N. Jackson Street

- Place used oil in a clean, leak proof, reusable container with a tight-fitting cap. Do not use containers previously used for gasoline, antifreeze, paint, thinners, solvents or bleach.
- Additional oil can be recovered by draining used oil filters.
- Don't mix used oil with water, gasoline, antifreeze, solvents or any other substances. Remember, used oil only! If it's not, it can't be recycled, and it's dangerous.
- All used motor oil must be tested before Nye County can accept the oil.
- Do NOT leave your Used Motor Oil at one of the facilities. Contact one of the sites listed to arrange a drop off time.
- **Used Motor Oil and other materials left at one of the sites without authorization will be reported to the proper authorities.**



## Appendix H Advertising

### Newspapers

#### **Pahrump Valley Mirror**

1570 E Hwy 372  
Pahrump, Nevada 89048  
Phone (775) 727-5583; Fax: (775) 727-7192

#### **Pahrump Valley Times**

2160 E. Calvada Blvd.  
Pahrump, NV 89048  
Phone: (775) 727-5102; Fax: (775) 727-5309 or 5692; web site: <http://pvtimes.com/>

#### **Tonopah Times-Bonanza & Goldfield News Newspapers**

150 Main St  
Tonopah, NV  
Phone: (775) 482-3365; Fax: (775) 482-5042; web site <http://tonopahtimes.com/> (coming soon)

For a more complete list of Newspapers go to:

<http://www.mondonepapers.com/usa/circulation/nevada.html>

### Radio Stations

#### **KCNV 89.3 FM (89.7 in Las Vegas-owned by KNPR) translators: K207EF/Pahrump; K207CY Round Mountain; KTPH 91.7 FM Tonopah**

Phone: (702) 482-3698; web site: <http://www.knpr.org/>

#### **KIBS/KBOV 100.7 FM /1230 AM**

Phone: (760) 873-6324; web site: <http://www.kibskbov.com/>

#### **KHWK 92.7 FM**

Tonopah, Nevada  
Phone: (775) 482-6500/(775) 482-5724

#### **KNYE 95.1 FM**

Pahrump, Nevada  
Phone (775) 537-6100; web site is: <http://www.knye.com/>

#### **KPAH (Internet only)**

web site is: <http://www.pahrumpradio.com/> Pahrump

For a more complete list of Radio Stations go to: <http://www.ontheradio.net/states/nevada.aspx>



### **Television Stations**

#### **KPVM-12 (KPVM-TV 41 Analog and KPVM-TV 46 Digital)**

Phone: (775) 727-9400; web site: <http://www.kpvm.tv/>.

#### **KPVT-LP TV 30 Pahrump CMA Cable Ch 22/ (KPVT-LD TV Pahrump and Las Vegas Channel 18.1, .2, .3, .4 Digital)**

Phone: (775) 751-1600; web site: <http://www.pahrumpstv.org/>

### **Websites**

Nye County staff has developed a website for the Nye County Recycling and Household Hazardous Waste Program. This website may be a page located at the Nye County Official Website [www.nyecounty.net](http://www.nyecounty.net).

Other websites that may be willing to publicize the Program and/or provide links to the County website according to research conducted on the web are:

Nye County Nevada Official Websites (alternative address): [www.co.nye.nv.us](http://www.co.nye.nv.us)

Beatty Chamber of Commerce [www.beattynevada.org](http://www.beattynevada.org)

Beatty Nevada Official Website: [www.beattynv.info](http://www.beattynv.info)

EDEN, Inc. of Nevada: [www.eden-nv.com](http://www.eden-nv.com)

Town of Pahrump: [www.pahrumpnv.org](http://www.pahrumpnv.org)

Town of Tonopah: [www.tonopahnevada.com](http://www.tonopahnevada.com)



## **Appendix I**

### **Consumer Reduction Tips**

#### **Solid Waste Minimization:**

##### **Reduce**

- Avoid disposable items and buy refillable items (e.g. razors, cigarette lighters, pens, pencils)
- Avoid packaging made with two or more materials since they are not recyclable
- Buy fresh food instead of processed foods, which are more packaged
- Buy in bulk, which uses less wasteful packaging than smaller packages
- Buy locally grown produce
- Buy vegetables loose rather than those packaged in plastic bags
- Borrow, rent, or share things you don't often use (e.g. tools)
- Choose products that use the least amount of packaging
- Choose products with a long life span (e.g. sponges, rechargeable batteries, thermos bottles)
- Donate extra canned goods
- Use concentrated products which need less packaging
- Don't take more than you need to use (e.g. napkins, plastic utensils)
- Don't waste food-store leftovers in reusable containers
- Place an order through the mail with a group of people in order to save on packaging
- Remove your name from junk mailing lists
- Reduce waste during the holiday season by giving experience-related gifts (e.g. movies, plays, restaurants, sporting events certificates) with little or no packaging
- Send eCards instead of paper greeting cards
- Use low energy fluorescent bulbs that last longer than incandescent bulbs

##### **Reuse**

- Maintain and repair items rather than replacing them
- Use your own bag or basket when shopping and don't accept plastic bags unless you need them
- Reuse boxes
- Reuse plastic bags
- Share newspapers, magazines, and books
- Turn a cardboard box into child's playhouse
- Turn a plastic tub into a flower pot
- Use both sides of paper
- Use china and glass as opposed to disposable tableware.
- Use cloth napkins, sponges, dishcloths instead of paper towels and napkins
- Use egg cartons to plant seedlings



- Use reusable coffee filters instead of paper ones
- Use reusable containers for food instead of disposable boxes, plastic, foil, bags, Styrofoam
- Use washable diapers instead of disposable ones for infants
- Wash plastic containers and jars for reuse

### **Recycle**

- Buy items in containers that can be reused or recycled
- Compost vegetable scraps and garden waste
- Let lawn trimmings remain on the soil to decompose and fertilize
- Select products made from recycled materials
- Sell or donate things instead of throwing them away (e.g. clothes, books)
- Turn used tires into swings or other playground equipment

### **Household Hazardous Waste (HHW) Management:**

- Ask for re-refined motor oil which has been recycled and reprocessed
- Avoid aerosol sprays and use pump sprays or other alternatives
- Before you begin a painting project, measure how much paint you need so you don't have excess
- Buy containers that are wider than tall, which results in less container residue
- Buy containers that minimize disposal problems (fillable pressurized spray cans instead of single use aerosol spray cans)
- Buy only as much as you need of hazardous materials
- Buy products that are the less toxic and less costly-to-handle
- Contact local government offices and sanitation services to find out where to take HHW
- Dispose of medications as hazardous waste (don't throw away in toilet, trash, etc)
- Do not mix hazardous products together
- Do not smoke, drink, or eat around household hazardous waste
- Don't apply pesticide before a rain or water the area immediately afterwards
- Don't burn or bury leftover products or containers
- Don't pour household hazardous waste on the ground
- Don't reuse hazardous chemical containers for other purposes
- Don't store corrosives, flammables, and poisons together
- Excess pesticide could be offered to garden centers
- Hand pull weeds instead of using weed killers
- Instead of using many different types of cleaners, use one general purpose cleaner
- Latex paints must be hardened before landfills can accept it
- Liquid oil based paints must be disposed of at hazardous waste facility
- Look for non-mercury alternatives to thermometers, etc
- Read labels of hazardous products



- Repair, donate or recycle electronics (e.g. computers, cell phones, etc)
- Select nontoxic inks and art supplies
- Select water-based products over solvent-based products (e.g. paint, glue, shoe polish)
- Store hazardous products in original containers with original labels intact
- Take motor oil, car batteries, antifreeze to automobile service centers to recycle
- Use common household products instead of hazardous chemicals
  - Instead of air fresheners, use baking soda, vinegar, or potpourri
  - Instead of all-purpose cleaner, use liquid soap and vinegar or baking soda and water
  - Instead of ant pesticide, use cream of tartar, red chili, paprika, or dried peppermint where ants enter
  - Instead of carpet cleaner, use soap-based non-aerosols, clean stains with club soda, sprinkle cornstarch and vacuum, rub dry baking soda into grease
  - Instead of chlorine bleach, use safer and less destructive dry bleach to whiten
  - Instead of disinfectant, use borax and water
  - Instead of drain unclogging chemicals, use a plunger or strainer, enzymatic biological drain cleaner, baking soda and vinegar
  - Instead of fabric softener, rinse cotton and wool with white vinegar before washing
  - Instead of floor cleaner, mop with white vinegar and water, polish with club soda
  - Instead of furniture polish, use lemon oil and vegetable oil
  - Instead of glue remover, soak in white vinegar
  - Instead of grout cleaner, use toothbrush with baking soda and water or vinegar
  - Instead of chemical hair colors, use plant-derived rinses
  - Instead of insecticides, select pest-resistant plants, plant garlic cloves at intervals in your garden, use traps or spray soaps
  - Instead of insect repellents, don't wear scented products, use chamomile tea as lotion, burn citronella candles or mosquito coils
  - Instead of metal polish, use Worcestershire sauce (brass), apple cider vinegar or baking soda (chrome), vinegar and salt (copper), steel wool and olive oil (pewter), water and baking soda (stainless steel), ammonia (silver)
  - Instead of soap scum remover, use baking soda, vinegar and water
  - Instead of mothballs, use cedar chips, lavender flowers, rosemary, mint, white peppercorns, cloves, dried lemon peels
  - Instead of oven cleaner, use steel wool and baking soda
  - Instead of stain remover, use club soda and lemon juice
  - Instead of toilet bowl cleaner, use baking soda and vinegar paste
  - Instead of window cleaner, use vinegar and water
- Use boric acid instead of roach insecticide
- Use up hazardous products or give them to someone who can
- Use rot-resistant wood or recycled lumber instead of wood preservatives
- Use sandpaper or a heat gun instead of chemical paint strippers



## **Bibliography**

California Department of Resources Recycling and Recovery. "Waste Prevention and Recycling at Home." <http://www.calrecycle.ca.gov/ReduceWaste/home/> (accessed May 24, 2011)

Discover Solar Energy. "Green Ways to Reduce Trash in the Landfill." <http://www.discoversolarenergy.com/lvg-grn/reduce.htm> (accessed May 31, 2011)

Earth911  
<http://earth911.com/> (accessed May 31, 2011)

Environment TOBAGO. "Tips for Reducing Solid Waste – And Saving Money Too!" <http://www.scsoft.de/et/et2.nsf/KAP2View/985407747092C1D605256A37006AB860?OpenDocument> (accessed May 27, 2011)

Fayette County Extension Office. "Tips for Reducing Solid Waste." [http://www.fayettecountyga.gov/extension\\_office/recycling/recycling\\_tips.htm](http://www.fayettecountyga.gov/extension_office/recycling/recycling_tips.htm) (accessed May 26, 2011)

Hennepin County Environmental Services. "How to Reduce Household Hazardous Waste." <http://www.co.hennepin.mn.us/portal/site/HennepinUS/menuitem.b1ab75471750e0fa01d fb47ccf06498?vgnextoid=844e53cb25454210VgnVCM10000049114689RCRD> (accessed May 27, 2011)

Hospitals for a Healthy Environment. "Reducing Hazardous Materials." <http://cms.h2e-online.org/ee/hazmat/reducinghazmat/> (accessed May 26, 2011)

Los Angeles County Department of Public Works. "What You Can Do to Reduce Household Hazardous Waste." <http://dpw.lacounty.gov/epd/hhw/reduce.cfm> (accessed May 27, 2011)

Maine State Planning Office. "Household Hazardous Waste." <http://www.maine.gov/spo/recycle/municipalities/hhwindex.htm> (accessed May 24, 2011)

Minnesota Pollution Control Agency. "Reducing Waste at Home." <http://156.98.19.245/home/index.html> (accessed May 27, 2011)

Mississippi Department of Environmental Quality. "Guide to Household Hazardous Waste." [http://www.deq.state.ms.us/mdeq.nsf/page/Recycling\\_GuidetoHHW?OpenDocument](http://www.deq.state.ms.us/mdeq.nsf/page/Recycling_GuidetoHHW?OpenDocument) (accessed May 26, 2011)



- Mitchell, Deborah. "Reduce the Toxicity of Your Garbage." *Volunteer Guide*.  
<http://volunteerguide.org/volunteer/fewhours/toxic-waste.htm> (accessed May 31, 2011)
- New York Department of Environmental Conservation. "Reduce Your Household Hazardous Waste Use." <http://www.dec.ny.gov/chemical/8781.html> (accessed May 26, 2011)
- Pierce County Public Works & Utilities. "Recycling/Disposal of Household Hazardous Waste." <http://www.piercecountytv.org/pc/services/home/environ/waste/hazardous.htm> (accessed May 26, 2011)
- Pierce County Public Works & Utilities. "Tips for Reducing Waste."  
<http://www.piercecountytv.org/pc/services/home/environ/waste/reduce/reduce2.htm> (accessed May 24, 2011)
- Professional Recyclers of Pennsylvania. "Reducing Household Hazardous Waste Fact Sheet." <http://proprecycles.org/PROP%20Fact%20Sheets.html> (accessed May 24, 2011)
- Recyclebank.  
<http://www.recyclebank.com> (accessed May 24, 2011)
- Shelby County Solid Waste Management District. "Recycle Smart, Buy Smart – Tips for Reducing Solid Waste." [http://www.cleanshelby.org/?page\\_id=71](http://www.cleanshelby.org/?page_id=71) (accessed May 27, 2011)
- Superpages Hazardous Waste Disposal Tips"  
<http://www.superpages.com/supertips/hazardous-waste-disposal.html> (accessed May 24, 2011)
- Thurston County Solid Waste Program. "Tips for Reducing Consumption."  
<http://www.co.thurston.wa.us/solidwaste/recycling/recycling-reduce.htm> (accessed May 26, 2011)
- United States Environmental Protection Agency. EPA Household Hazardous Waste Reduction EPA-905-F-97-011. <http://www.epa.gov/reg5rcra/wptdiv/p2pages/hhw.pdf> (accessed May 31, 2011)
- United States Environmental Protection Agency. "Minimizing Solid Waste"  
<http://www.epa.gov/ne/greenconventions/solidwaste.html> (accessed May 31, 2011)
- United States Environmental Protection Agency. "Tips for Reducing Solid Waste."  
<http://www.epa.gov/osw/wycd/catbook/the12.htm> (accessed May 31, 2011)