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STATE OF ARKANSAS

2014 STATEWIDE SOLID WASTE MANAGEMENT PLAN

EFFECTIVE DATE

April 1, 2014

Arkansas Department of Environmental Quality
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 Phone (501) 682-0602 Fax (501) 682-0880 www.adeq.state.ar.us



LETTER FROM THE DIRECTOR

Dear Arkansans:

In 2001 the Arkansas General Assembly charged the Arkansas Department of Environmental Quality with developing a comprehensive Statewide Solid Waste Management Plan. This plan, created in partnership with the state's 18 regional solid waste management districts, the University of Arkansas Cooperative Extension Service and the Arkansas Environmental Federation, was implemented in 2003. The plan called for each district to submit updated operation plans to ADEQ annually and for ADEQ to review and rewrite the statewide plan every 10 years.

In August of 2011, ADEQ brought together diverse experts and interested parties to help develop the 2014 plan. They identified as focus areas waste assessment, collection, disposal, recycling, special materials management and education. The department is thankful for the commitment of these people, who are listed on the acknowledgements page.

The state's 2003 plan provided the public and decision-makers with valuable information regarding history, organization, revenue resources, demographics and services.

It became evident during many planning meetings over the past year that the second plan will need to go even further in providing a more specific framework and timeline to help all levels of government fulfill their environmental missions. As a result, the 2014 plan includes a number of recommendations that will break new ground for the future. For example, each regional solid waste management district will develop a waste management needs assessment that will provide a starting point for planning initiatives. Also, there will be more focus on reinvigorating waste diversion and recycling programs across the state.

ADEQ's mission is to protect, enhance and restore the natural environment for the well-being of all Arkansans. For our employees, this mission is more than a job; it is a passion. We hope all Arkansans will partner with us to implement this plan in order to safeguard our greatest resources.

Teresa Marks

Director

Acknowledgements

The director of the Arkansas Department of Environmental Quality wishes to acknowledge the following Statewide Solid Waste Management Plan Committee members and others for their contributions of time and expertise during the development of this document. To the cities, counties, regional solid waste management boards and districts (RSWMBs & RSWMDs), and industries that participated or provided responses and comments to solid waste surveys: Thank you all.

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Executive Summary

As waste streams, waste management techniques and public policy priorities have dramatically changed over the past 10 years, Arkansas needed to evaluate these changes and make enhancements to our existing infrastructure to ensure we are maximizing our ability to conserve precious resources and provide for environmentally sound waste management opportunities for all citizens of the state.

This 2014 Statewide Solid Waste Plan was developed over a two year period by a broad stakeholder workgroup. It was discussed at 18 public meetings around the state and revised based on public and stakeholder comments and concerns. This update does not replace the existing plan developed in 2003; it builds upon it.

The focus of this plan is to maximize opportunities to reuse, reduce and recycle waste instead of landfilling valuable resources. It will take all Arkansans (government, industry, business and citizens) working together to achieve these goals. Arkansas businesses have made great strides in reducing the industrially generated waste they send to landfills, which has not only been a benefit to the environment but also to their bottom line. We face more of a challenge in better managing waste generated by households and commercial entities.

Much of the waste generation and management data presented in this plan are from 2010. We used that year's data because it also corresponds to the last census taken and population has a direct impact on waste generation. Solid waste districts will need to look at their population growth/decline trends as they plan for adequate waste management infrastructure for the future.

The workgroup did not recommend establishing a numeric waste diversion goal similar to the recycling goal established in the 2003 plan. Instead, they recommended that progress be evaluated and reported through the five year plan updates provided by the regional solid waste management districts.

While most of the action items developed by the workgroup are in the form of a goal as opposed to a mandate, it is clear that the most successful waste diversion programs such as reuse and recycling are more appropriately driven by public planning, funding and needs within each regional solid waste district.

As the implementation of this plan goes forward, the department will focus on achieving the goals and mandates established by the Statewide Solid Waste Management Committee and provide guidance to regional solid waste management boards (RSWMBs) as they plan for the future. We will also provide timely updates of the department's progress as well.

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PART ONE

BACKGROUND

Mission Statement

"It is the mission of the Solid Waste Management Plan for the State of Arkansas to protect public health and environmental quality and maximize the diversion of reusable resources from landfilling. The Plan will establish minimum requirements for the development of regional solid waste management plans for 2014-2024."

Overview

A. History

The Arkansas State Legislature in 1971 created the Solid Waste Management Act (Act 237, codified as Ark. Code Ann. §8-6-201 et seq.) with the stated purposes to protect the public health and welfare, prevent the spread of disease and creation of nuisances, conserve natural resources, prevent water and air pollution and enhance the beauty and quality of the environment.

Act 870 of 1989, codified as Ark. Code Ann. §8-6-701 et seq., established the original eight regional solid waste planning districts. Pursuant to this legislation, a governor-appointed task force studied solid waste issues in Arkansas. As a result, more than two dozen solid waste related bills were introduced during the 1991 General Assembly.

Act 752 of 1991, an amendment to Ark. Code Ann. §8-6-701 et seq., enabled planning districts to become regional solid waste management districts (RSWMDs) with greatly expanded authority and responsibility. Also, Act 752 imposed a requirement that all local governments plan for the development of solid waste management systems. Through approvals granted by the Arkansas Pollution Control and Ecology Commission, the number of RSWMDs has grown to 18 in 2014.

In the 2001 legislative session, a bill was introduced to address the following issues:

1. Existing regional solid waste management plans were outdated.
2. A comprehensive statewide solid waste management plan was needed.
3. The U.S. Environmental Protection Agency's Resource Conservation and Recovery Act Subtitle D regulations promulgated in 1994 significantly changed the way municipal solid waste landfills are required to be built and maintained.
4. Solid waste management actions and activities had grown and developed by leaps and bounds from 1991 to 2001, with countless innovative and proactive advancement, giving many new options for solid waste management.
5. From 1988 to 1999 numerous pieces of state legislation regarding solid waste management were codified, along with resulting new regulations, or amendments to old regulations.

Act 1376 of 2001, codified as Ark. Code Ann. §8-6-1901 et seq., specifically charged the Arkansas Department of Environmental Quality with developing a comprehensive statewide solid waste management plan and minimum requirements for the development of new waste management plans by regional solid waste management boards. Specifically, the plan was to set requirements for strategic planning, reporting, public notice and participation, services, and solutions to problems and issues.

In 2003, the first statewide solid waste management plan was finalized for implementation from 2003 to 2013. It incorporated requirements set forth in legislation. This plan mandated minimum requirements for regional solid waste management districts to follow in planning for their service areas and required the districts to update their plans annually. The plan also mandated its review and the creation of a new statewide solid waste plan in 10 years.

B. 2014-2024 Plan Development Process

To ensure broad input into the drafting of a proposed statewide solid waste management plan for the 2014-2024 timeframe, in mid-2011 ADEQ invited representatives from a variety of business, industry, government, consulting, environmental and resource management entities to form the statewide solid waste management planning committee. Meetings began and subcommittees were formed to start the process of developing goals and an action plan. The committee reviewed the existing plan, legislation enacted since 2003 and the current status of waste management systems and services in Arkansas.

The committee, in its early discussions, identified the goal of “waste diversion from landfilling” as the overarching tenant under which the plan should be designed. Further discussion led to the creation of the following subcommittees:

- | | |
|----------------------------|-----------------------------------|
| 1. Waste Needs Assessments | 4. Recycling |
| 2. Collection | 5. Special Materials |
| 3. Disposal | 6. Education/Public Participation |

The committee recognized that a comprehensive “needs assessment” for each RSWMD was needed to ensure that all current waste streams and services be accounted for and that all gaps be identified in order to facilitate the development of district-specific plans for 2014-2024. The committee recommended that ADEQ, utilizing its statutory authority, task the RSWMDs to perform their needs assessments and deliver those results to facilitate the development of this plan. The four elements of a needs assessment are:

1. **Plan Area** – This element calls for a comprehensive evaluation of the RSWMD geographic area. It includes demographic data, and lists each city and county within the boundaries of the plan area.
2. **Administrative Structure** – This element identifies how the board of directors conducts its business, involves the general public in its operations, creates and adopts rules and regulations governing the RSWMD (administrative procedures), and funds the RSWMD’s operations.
3. **Waste Origin, Composition and Characterization** – This element identifies the various types and volumes of solid waste generated within the plan area.
4. **Waste Collection, Recycling and Disposal** – This element identifies the adequacy of the collection system for the entire RSWMD service area, as well as available facilities for recycling, composting,

disposing, and producing energy from the waste generated within the district and/or transported into or out of the district.

During the time that the needs assessments were being developed by the RSWMDs, the committee moved forward with subcommittee work and tasked each subcommittee with developing specific recommendations for improving solid waste management throughout Arkansas. This plan presents both the current state of solid waste management in Arkansas and associated needs, as well as the recommendations developed by the committee.

The committee decided that it would be the job of the RSWMDs to ensure that funding was available when incorporating recommendations in the form of goals into their own individual plans. For recommendations that are in the form of a mandate, necessary funding sources and levels would be developed by the committee for inclusion in the plan.

In order to get broad public input into the proposed plan, the committee agreed that ADEQ should host at least one public meeting within each RSWMD to enable the citizens and businesses in the district to have an open discussion on the services currently provided and the services they would like to see in the future. While not all citizen or business requests will end up as part of the statewide plan, each RSWMD will continue to tailor its services beyond the minimum established in the state plan to meet its citizen's requests and needs.

Following public input and changes resulting from the public participation process, ADEQ finalized the state plan for submission to the governor and Legislative Council. RSWMDs will now be tasked with developing a regional plan that satisfies the minimum requirements contained in the state plan. For recommendations that will need statutory or ADEQ regulatory changes before they can be implemented, schedules will be built into implementation of the updated plans.



Statewide solid waste management planning committee

Solid Waste Management Infrastructure of State

A. Organization

1. Pollution Control and Ecology Commission

The Arkansas Pollution Control and Ecology Commission (APC&EC), established in 1949 as part of the Arkansas Water Pollution Control Act (Act 472 of 1949), is the environmental rule-making and appellate body for Arkansas. The commission may also make recommendations to the director regarding overall policy and administration of the department.

The APC&EC and ADEQ work closely together, but they have distinct functions.

2. Arkansas Department of Environmental Quality

ADEQ is organized into six regulatory divisions that focus on the protection of air, land and water:

- Air
- Hazardous Waste
- Surface Mining and Reclamation
- Regulated Storage Tanks
- Solid Waste Management
- Water

There are two environmental assistance divisions that offer direct support to the public, other divisions and environmental stakeholders to protect the environment:

- Public Outreach and Assistance
- Technical Services

And five internal divisions support the day-to-day operations of the agency:

- Computer Services
- Fiscal
- Management Services
- Legal
- Director's office

Up-to-date organizational charts for each division are located at <http://www.adeq.state.ar.us/home/orgchart.htm>.

The Solid Waste Management Division's staff regulates the handling, processing, recycling and disposal of nonhazardous solid waste. The division is divided into three branches.

1. The Enforcement Inspection Branch is composed of eight district field inspectors, two administrative specialists, an inspector supervisor, and an enforcement coordinator. The branch is responsible for ensuring permitted facilities are operating according to state and federal solid waste management regulations along with specific permit requirements. The

branch offers compliance assistance, response to emergency and disaster situations, and investigates and coordinates citizens' complaints regarding illegal dumping with the solid waste management boards/districts. The *Solid Waste News* semi-annual newsletter is published by the inspection staff.

2. The Programs Branch provides administrative and financial support to the division, and technical and program assistance to the public. Staff members oversee the collection of landfill disposal fees, and the management of the waste tire and mercury switch collection program. They also assist with the training of solid waste operators and manage the licensure program for both solid waste management facility operators and illegal dump control officers.
3. The Technical Branch provides technical review and assistance during and after the permitting process. The Branch has five engineers, three geologists, and a technical assistant. The Branch reviews permit applications and ongoing monitoring of various classes of landfills, composting facilities, transfer stations, solid waste recovery facilities, and waste tire processing facilities. Other duties include preliminary site investigations, permit modifications to existing facilities, construction quality assurance review, groundwater quality investigations, groundwater corrective actions, as well as the assessment, corrective action design, and corrective action construction performed under the Landfill Post-Closure Trust Fund.

In addition, the Recycling and Market Development Branch in ADEQ's Public Outreach and Assistance Division includes two related but distinct programs. The Recycling Section develops and conducts outreach programs to encourage recycling, waste reduction and composting. Additional services include performing waste audits; developing custom-designed educational programs; technical and outreach assistance for public, private and nonprofit organizations; distributing recycling funds; and publishing the annual "State of Recycling in Arkansas" report. Staff also provides assistance and manages two grant programs for electronics recycling. Up-to-date listings of recycling coordinator names and coordinator districts are located at http://www.adeq.state.ar.us/solwaste/branch_recycling/coord.htm.

The Market Development Section provides support for the Arkansas Marketing Board for Recyclables and assists in the development of markets for recycled material. The staff operates the Recycling Equipment Tax Credit Program, which certifies tax credits for the purchase of business equipment that recycles waste and develops markets for recyclable materials. Staff maintains the Arkansas Recycling Directory and is a member of the Renew Material Exchange.

ADEQ receives funds for Solid Waste Management Division related activities from the following legislated fee programs. Listed below are the programs and the regulatory authority of each. A complete copy of each regulation is located on ADEQ's website, www.adeq.state.ar.us

- Permit Fees - Regulation 9 - Chapter Six: Solid Waste Management Facilities Permit Fees, pursuant to Ark. Code Ann. §8-1-103.
- Landfill Disposal Fees - Regulation 11 - Chapter Two: Solid Waste Management Landfill and Out-of-State Transporter Disposal Fee System, pursuant to Ark. Code Ann. §8-1-601 et seq. and Ark. Code Ann. §8-6-1001 et seq.
- Waste Tire Fees - Regulation 14 - Waste Tire Program, pursuant to Ark. Code Ann. §8-9-401 et seq.
- Licensing Fees - Regulation 27 - Licensing of Operators of Solid Waste Management Facilities and Illegal Dumps Control Officers, pursuant to Ark. Code Ann. §8-6-901 et seq.

3. Regional Solid Waste Management Districts

Act 870 of 1989 created eight regional solid waste planning districts and eight regional solid waste planning boards. Their jurisdictions corresponded to the boundaries of the planning and development districts established pursuant to Arkansas Code §14-166-202. Act 752 of 1991 renamed these districts and boards regional solid waste management districts. There are now 18 regional solid waste management districts approved by the APC&EC.

The regional solid waste management boards (RSWMBs) function under the authority of Ark. Code Ann. §8-6-701. RSWMBs consist of local mayors for each first class city (population of 2,500 or more) in the district and county judges and/or members appointed by these officials. The boards are responsible for the continuous evaluation of the solid waste management needs in their districts (Ark. Code Ann. §8-6-704).

Although frequency varies, board meetings are conducted on a regular basis, with additional meetings called when circumstances warrant. The locations, times and specific meeting dates for all the districts can be found in their needs assessments on ADEQ's website. The diagram below provides an overview of each district.

| District | Meeting Frequency | Public Notification | District Funded Staff | Planning and Development District that Provides Administrative Support |
|--------------------|-------------------|----------------------|-----------------------|--|
| Benton County | Every other month | Website/ local print | 6 | None |
| Boston Mountain | Quarterly | Website/by request | 2 | None |
| Central Arkansas | Every other month | Local print | 7 | CAPDD |
| Craighead County | Monthly | Local print | 0 | CCSWDA |
| East Arkansas | Monthly | Local print | 4 | EAPDD |
| Faulkner County | Quarterly | Website/ local print | 6 | None |
| Mississippi County | Twice Quarterly | Local print/media | 0 | None |
| Northeast Arkansas | Monthly | Local print/media | 17 | None |
| Ozark Mountain | Quarterly | Local print/media | 0 | CCSWA |
| Pulaski County | Quarterly | Website/ print/media | 5 | None |
| Saline County | Monthly | Local print/media | 5 | None |
| Sebastian County | Quarterly | Local print/media | 0 | None |
| Southeast Arkansas | Monthly | By Request | 2 | EAPDD |
| Southwest Arkansas | Quarterly | Local print/media | 0 | SAPDD |
| Southwest Central | Quarterly | Local print/media | 4 | WCAPDD |
| Upper- Southwest | Quarterly | Local print/media | 4 | None |
| West River Valley | Quarterly | Not notified | 6 | None |
| White River PDD | Quarterly | Local print | 0 | WRPDD |

District rules, regulations and administrative procedures are filed with the Arkansas secretary of state and, although developed independently, each includes statutory requirements imposed by state code and regulations. RSWMDs fund their operations using some of the following methods found in Arkansas statute and regulations:

- Two dollars per ton of solid waste related to the movement or disposal of solid waste within the district (Ark. Code Ann. §8-6-714).
- Reasonable licensing fees for each class of solid waste hauler (Ark. Code Ann. §8-6-721).

| Geography | 2000 | 2010 | Change | Projected 2020 |
|---------------------------|----------------|----------------|---------------|-------------------|
| Benton County | 153,406 | 221,339 | 44.3% | 298,572 |
| Boston Mountain | 171,958 | 218,782 | 19.6% | 260,274 |
| Madison County | 14,243 | 15,717 | 10.3% | 17,148 |
| Washington County | 157,715 | 203,065 | 28.8% | 243,126 |
| Central Arkansas | 72,621 | 85,220 | 0.1% | 890,026 |
| Lonoke County | 52,828 | 68,356 | 29.4% | 876,446 |
| Prairie County | 9,539 | 8,715 | -8.6% | 6,969 |
| Monroe County | 10,254 | 8,149 | -20.5% | 6,611 |
| Craighead County | 82,148 | 96,443 | 17.4% | 105,240 |
| East Arkansas | 164,360 | 153,794 | -8.5% | 145,128 |
| Crittenden County | 50,866 | 50,902 | 0.1% | 51,488 |
| Cross County | 19,526 | 17,870 | -8.5% | 18,303 |
| Lee County | 12,580 | 10,424 | -17.1% | 8,283 |
| Phillips County | 26,445 | 21,757 | -17.7% | 18,261 |
| Poinsett County | 25,614 | 24,583 | -4.0% | 24,657 |
| St. Francis County | 29,329 | 28,258 | -3.7% | 24,136 |
| Faulkner County | 86,014 | 113,237 | 31.6% | 135,133 |
| Mississippi County | 51,979 | 46,480 | -10.6% | 41,720 |
| Northeast Arkansas | 90,909 | 93,557 | 0.2% | 97,742 |
| Clay County | 17,609 | 16,083 | -8.7% | 14,346 |
| Greene County | 37,331 | 42,090 | 12.7% | 46,495 |
| Lawrence County | 17,774 | 17,415 | -2.0% | 17,417 |
| Randolph County | 18,195 | 17,969 | -1.2% | 19,484 |
| Ozark Mountain | 130,700 | 139,040 | 4.0% | 156,074 |
| Baxter County | 38,386 | 41,513 | 8.1% | 50,719 |
| Boone County | 33,948 | 36,903 | 8.7% | 42,456 |
| Carroll County | 25,357 | 27,446 | 8.2% | 28,532 |
| Searcy County | 8,261 | 8,195 | -0.8% | 8,079 |
| Marion County | 16,140 | 16,653 | 3.2% | 17,804 |
| Pulaski County | 361,474 | 382,748 | 5.9% | 381,080 |
| Saline County | 83,529 | 107,118 | 28.2% | 113,896 |
| Sebastian County | 115,071 | 125,744 | 9.3% | 128,954 |
| Southeast Arkansas | 229,544 | 213,808 | -6.9% | 217,530 |

| | | | | |
|---------------------------|----------------|----------------|--------------|----------------|
| Arkansas County | 20,749 | 19,019 | -8.3% | 19,028 |
| Ashley County | 24,209 | 21,853 | -9.7% | 22,109 |
| Bradley County | 12,600 | 11,508 | -8.7% | 11,335 |
| Chicot County | 14,117 | 11,800 | -16.4% | 10,301 |
| Cleveland County | 8,571 | 8,689 | 1.4% | 10,061 |
| Desha County | 15,341 | 13,008 | -15.2% | 13,207 |
| Drew County | 18,723 | 18,509 | -1.1% | 18,524 |
| Grant County | 16,464 | 17,853 | 8.4% | 20,786 |
| Jefferson County | 84,278 | 77,435 | -8.1% | 77,811 |
| Lincoln County | 14,492 | 14,134 | -2.5% | 14,368 |
| Southwest Arkansas | 155,549 | 149,257 | -4% | 149,394 |
| Calhoun County | 5,744 | 5,368 | -6.5% | 5,208 |
| Columbia County | 25,603 | 24,552 | -4.1% | 23,479 |
| Dallas County | 9,210 | 8,116 | -11.9% | 7,334 |
| Miller County | 40,443 | 43,462 | 7.5% | 48,542 |
| Ouachita County | 28,790 | 26,120 | -9.3% | 22,821 |
| Union County | 45,629 | 41,639 | -8.7% | 42,010 |
| Southwest Central | 141,967 | 151,942 | 5% | 161,996 |
| Clark County | 23,546 | 22,995 | -2.3% | 23,105 |
| Garland County | 88,068 | 96,024 | 9.0% | 107,895 |
| Hot Spring County | 30,353 | 32,923 | 8.5% | 30,996 |
| Upper-Southwest | 110,806 | 107,651 | -3.3% | 107,736 |
| Hempstead County | 23,587 | 22,609 | -4.1% | 23,469 |
| Howard County | 14,300 | 13,789 | -3.6% | 15,057 |
| Lafayette County | 8,559 | 7,645 | -10.7% | 6,790 |
| Little River County | 13,628 | 13,171 | -3.4% | 13,260 |
| Montgomery County | 9,245 | 9,487 | 2.6% | 10,023 |
| Nevada County | 9,955 | 8,997 | -9.6% | 9,045 |
| Pike County | 11,303 | 11,291 | -0.1% | 10,973 |
| Polk County | 20,229 | 20,662 | 2.1% | 19,119 |
| Sevier County | 15,757 | 17,058 | 8.3% | 19,194 |
| Newton County | 8,608 | 8,330 | -3.2% | 8,484 |
| West River Valley | 233,434 | 254,856 | 6.4% | 269,855 |
| Crawford County | 53,247 | 61,948 | 16.3% | 69,627 |
| Conway County | 20,336 | 21,273 | 4.6% | 20,589 |
| Franklin County | 17,771 | 18,125 | 2.0% | 19,404 |

| | | | | |
|------------------------|------------------|------------------|-------------|------------------|
| Johnson County | 22,781 | 25,540 | 12.1% | 27,804 |
| Logan County | 22,486 | 22,353 | -0.6% | 24,871 |
| Perry County | 10,209 | 10,445 | 2.3% | 11,097 |
| Pope County | 54,469 | 61,754 | 13.4% | 63,604 |
| Scott County | 10,996 | 11,233 | 2.2% | 11,698 |
| Yell County | 21,139 | 22,185 | 4.9% | 21,161 |
| White River PDD | 222,304 | 237,844 | 3.5% | 248,635 |
| Cleburne County | 24,046 | 25,970 | 8.0% | 29,653 |
| Fulton County | 11,642 | 12,245 | 5.2% | 13,890 |
| Independence County | 34,233 | 36,647 | 7.1% | 37,424 |
| Izard County | 13,249 | 13,696 | 3.4% | 14,034 |
| Jackson County | 18,418 | 17,997 | -2.3% | 14,771 |
| Sharp County | 17,119 | 17,264 | 0.8% | 18,473 |
| Stone County | 11,499 | 12,394 | 7.8% | 12,924 |
| Van Buren County | 16,192 | 17,295 | 6.8% | 18,577 |
| White County | 67,165 | 77,076 | 14.8% | 82,688 |
| Woodruff County | 8,741 | 7,260 | -16.9% | 6,200 |
| Arkansas State | 2,678,501 | 2,897,236 | 8% | 3,139,334 |

Population Change by PDD- Retrieved 2013
<http://aiea.ualr.edu/population-estimates-a-projections.html>

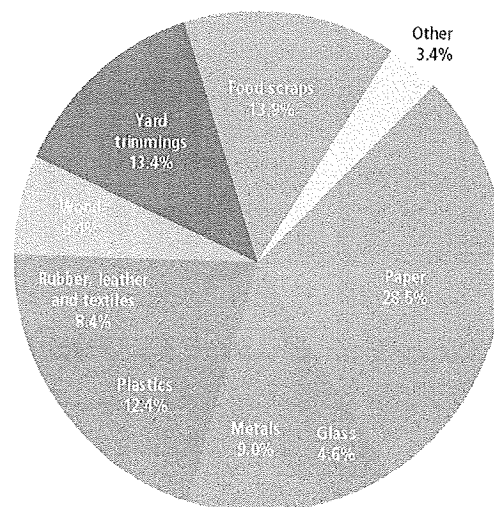
C. Waste Origin and Composition

Understanding the origin and composition of waste is a significant step in planning for the future of solid waste management. According to EPA data, more than 70 percent of waste disposed in landfills is recyclable material. Providing waste diversion opportunities and education to both the public and industry across the state will encourage waste diversion from landfills. In order to understand the planning needs of the state, one must evaluate the three waste generation sectors: residential, commercial, and industrial.

The per capita generation rate provided by the EPA indicates that household and commercial waste (municipal waste or MSW) is produced at a rate of 4.43 pounds per person per day. All RSWMDs were asked to identify the composition and quantity of waste generated within their respective districts. The majority of districts submitted statistics based on the EPA per capita generation rate versus actual waste collected and disposed of within their boundaries.

Municipal solid waste consists of everyday items such as product packaging, food scraps, clothing, newspapers, bottles, metals, batteries, etc. These materials are generated from our homes, schools, hospitals, and businesses. Using estimates based on EPA analysis, MSW generated in Arkansas would be distributed by the following tonnages across the same components.

Figure 5. Total MSW Generation (by material), 2010
250 Million Tons (before recycling)



http://www.epa.gov/osw/nonhaz/municipal/pubs/msw_2010_rev_factsheet.pdf

2010 Total MSW Waste Stream

Arkansas Waste (tons) landfilled after recycling

3,408,790

| <u>Waste Type</u> | <u>Waste Stream</u> |
|----------------------|---------------------|
| Paper and Paperboard | 971,505.15 |
| Food Scraps | 473,821.81 |
| Yard Trimmings | 456,777.86 |
| Plastics | 422,689.96 |
| Metals | 306,791.10 |
| Rubber and Textiles | 286,338.36 |
| Wood | 218,162.56 |
| Glass | 156,804.34 |
| Other | 118,929.95 |

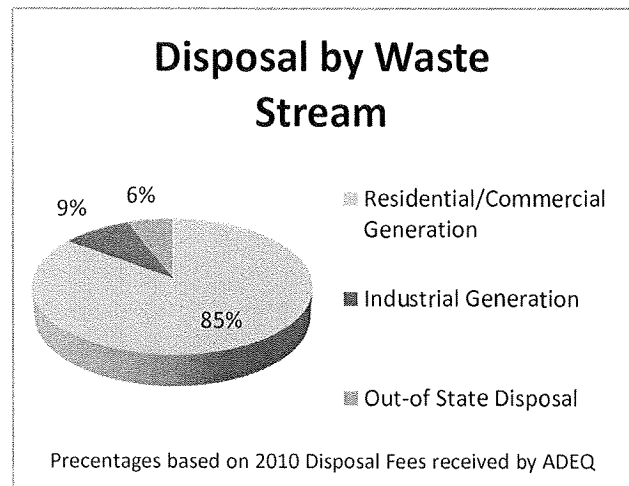
Waste stream totals based on 2010 EPA facts and figures percentages

1. Residential and Commercial Waste Generation

For planning to be effective, the long-term (10-year) growth in solid waste also needs to be determined. Total waste volumes or tonnage going to solid waste disposal facilities within Arkansas, as well as Arkansas generated waste that is transported out-of-state for ultimate disposal, is summarized in this section.

2. Industrial Waste Generation

Reported industrial waste generation is comparably a small part of the waste stream but an equally important factor in planning solid waste management for the state. ADEQ included survey templates as part of the district needs assessment guidelines to each RSWMD. Industrial survey results did not provide insight into waste composition because of limited response. It is important for state and district stakeholders to collaborate in efforts to inform industrial leaders that their evaluations of current operations are necessary for RSWMDs to address the needs of industries in future planning. At the time of publication there are 28 permitted Class 3 noncommercial industrial landfills, with 21 accepting waste.



D. Waste Collection, Recycling and Disposal

The state infrastructure can be understood through the aggregation of the collection, recycling and disposal systems in each district. The availability and effectiveness of solid waste services and associated costs differ from one RSWMD to another. The specific services available in each district can be found in its needs assessment on the ADEQ website:

http://www.adeg.state.ar.us/solwaste/branch_programs/statewide_sw_management_plan.htm.

1. Existing Solid Waste Facilities

All municipal solid waste landfills must meet the requirements established under Subtitle D of the Resource Conservation and Recovery Act (RCRA), Title 40 of the Code of Federal Regulations, Part 258 (40 CFR 258). The State of Arkansas has 32 open permitted Class 1 landfill facilities and 36 Class 4 landfills (landfills can be designated as an active open permitted facility, but may not be accepting waste). In some locations, joint permits are held for Class 1 and 4 facilities at the same location. Two out of the 18 RSWMDs have neither a Class 1 nor Class 4 facility located within their boundaries.

All permitted facilities are subject to APC&E Regulation 22 as well as other environmental regulations implemented by ADEQ's Solid Waste Management Division

| Class | Total | Classification |
|--|-------|--|
| Class 1 Municipal Solid Waste Landfill | 32 | Class 1 landfills are subject to the requirements established under Subtitle D of the Resource Conservation and Recovery Act (RCRA), Title 40 of the Code of Federal Regulations, Part 258 (40 CFR 258). Subtitle D has been adopted by the State and regulates all municipal solid waste landfill (MSWLF) units that accept household wastes for disposal. Class 1 landfills can accept household wastes, commercial wastes and approved industrial wastes. |
| Class 3C Commercial Solid Waste Landfill | 3 | Class 3C landfills can accept commercial wastes and approved industrial wastes. Class 3 and 4 landfills are subject to the criteria contained in 40 CFR 257, which the state has also adopted, and APC&EC Regulation Number 22. |
| Class 3N Noncommercial Industrial Landfill | 23 | Class 3N landfills can accept approved industrial wastes. These landfills are for disposal of waste generated solely by the permittee at that industry location. Only Class 3N landfills are exempt from obtaining a Certificate of Need. Class 3N landfills are subject to the criteria contained in 40 CFR 257, which the State has also adopted, and APC&EC Regulation Number 22. |
| Class 3T Tire Monofill | 2 | Class 3T landfills can accept only tires for disposal and are subject to the criteria contained in 40 CFR 257, which the State has also adopted, and APC&EC Regulation Number 22. |
| Class 4 C&D Landfill | 36 | Class 4 landfills can accept inert, non-putrescible wastes, such as construction and demolition wastes, appliances and furniture, and other bulky, inert wastes. Class 4 landfills are subject to the criteria contained in 40 CFR 257, which the State has also adopted, and APC&EC Regulation Number 22. |
| Class CO Compost Organic Waste | 4 | Class CO facilities may accept any source separated organic wastes, such as paper, sewage sludge, food processing wastes, and other specific organic wastes, including Class CY wastes. |
| Class CS Compost Mixed Solid Waste | 0 | Class CS facilities may receive all types of suitable solid waste for composting, including household garbage, commercial wastes, suitable industrial wastes, and all type Class CO and Class CY wastes. |
| Class CY Compost Yard Waste | 15 | Class CY facilities may accept only yard wastes and other woody wastes. Class CY facilities qualify for coverage under a general permit in which permit coverage is granted within 30 days of receiving a complete application. At ADEQ discretion, an applicant may be required to obtain a full individual permit. |
| Class TP Tire Processing Facility | 11 | These facilities process waste tires for recycling uses or for disposal. An individual permit is required, but there is no preliminary application requirement. |
| Class TS Solid Waste Transfer Station | 86 | Transfer stations are facilities that receive solid waste from collection vehicles and the public for consolidation to larger vehicles for long distance transport. Transfer stations are normally covered under a general permit. At ADEQ's discretion, an applicant may be required to obtain a full individual permit. |

| | | |
|--|------------|--|
| Class WT Waste Tire Collection Centers | 10 | These centers may store outdoors no more than 3,000 loose waste tires or up to a maximum of 10,000 tires that have been compacted or baled at any one time. |
| Class WR Solid Waste Transfer Station | 6 | Also referred to as material recovery facilities, solid waste is sorted and recyclable materials recovered from the waste stream. Most facilities can be covered under a general permit. |
| PERMITTED FACILITIES | 210 | <i>(Current at publication) Technical Branch, Solid Waste Management Division, Arkansas Department of Environmental Quality. (Not all facilities with an open permit accept waste)</i> |

Solid waste legislation and regulation in Arkansas have been a work in progress. Historically, landfills have been the primary source of solid waste management, but the cost to maintain, expand and/or close facilities supports consideration of alternate disposal options. More than 700 licensed facility operators work and manage the permitted landfills and transfer stations across the state. Landfills, transfer stations, material recovery/recycling facilities and composting are all utilized in the management of solid waste.

2. Material Recovery/ Recycling Facilities

There are 87 material recovery facilities across the state. Currently more than 25 cities offer curbside recycling and numerous drop-off locations for collection of recyclable waste. Arkansans recycled 32 percent of the total waste stream of 5,009,804 tons in 2010. Numbers were voluntarily reported by businesses, nonprofits and municipal recycling programs. The electronic waste collected from the state's 127 collection sites totaled 7,265 tons.

Ark. Code Ann. §8-6-719 provides that "each regional solid waste management board shall establish a program for the composting of yard waste." Currently there are only 15 permitted composting facilities accepting material across the state. These composting facilities are located in only 11 RSWMDs, leaving 7 RSWMDs without any composting opportunities for their citizens. There are several non-permitted Class CY facilities that provide yard waste management opportunities for the citizens.

Educating the population in backyard composting and increasing composting availability are both needs of the state.

PART TWO

Recommendations for the Statewide Solid Waste Management Plan and Minimum Guidelines for the 2014-2024 Regional Solid Waste Plans

The planning subcommittees, consisting of stakeholders assembled for the statewide solid waste planning committee, were tasked to provide their top recommendations for the future of solid waste management for Arkansas to be included in the 2014-2024 statewide plan. The subcommittees were broken up into the following categories:

- A. Needs Assessment
- B. Collection
- C. Disposal
- D. Recycling
- E. Special Materials
- F. Education and Public Participation

The full committee acknowledged that recommendations implemented at the local and regional level are the responsibility of the regional solid waste management district boards. The remaining recommendations needing statewide mechanisms will be implemented by ADEQ. These are the goals and mandates each RSWMD will incorporate into a regional solid waste plan for this 10-year planning period.

The action items that follow include information on:

- 1. The entity responsible for implementation.
- 2. Whether the recommendation is a goal or a mandate.
- 3. Whether statutory or regulatory changes will be needed to implement the recommendation and whether additional funding is needed to implement mandates.
- 4. How the implementation will be measured.

A. Needs Assessment

Action Item #1 - Change the statutes and/or regulations to reflect a change in the purpose of the needs assessment and solid waste management plan (from tracking waste across RSWMD jurisdictional boundaries and providing for disposal capacity) to meeting the goal of waste diversion.

- 1. ADEQ will draft legislation to achieve this action item.
- 2. This action is mandated for ADEQ.
- 3. Statutory changes during the 2015 legislative session will be required. No additional funding required.
- 4. This action item will be completed after legislative changes are in place and incorporated into a needs assessment template developed by ADEQ and provided to all RSWMBs for their use in developing their 10-year plans.

Action Item #2 - Change the time frames so that each district updates its needs assessment and solid waste management plan every five years. For proper sequencing, the first needs assessment would be due in year four, and the solid waste management plan update due the next year. This would clarify due dates, which are currently confusing and sometimes contradictory.

- 1. ADEQ will draft legislation to achieve this action item.
- 2. This action is mandated for ADEQ.

3. Statutory changes during the 2015 legislative session will be required. No additional funding will be required.
4. This action item will be completed after legislative changes are in place and ADEQ develops and provides a management plan template for use by the RSWMBs in the development of their 10-year plans.

Action Item #3 - Require that each district provide only an annual report updating the district's progress toward goals in its own 10-year plan. This would be a short, simple report.

1. ADEQ will draft legislation to modify existing planning requirements to achieve this action item.
2. This action is mandated for ADEQ.
3. Statutory changes during the 2015 legislative session will be required. No additional funding will be required.
4. Action item will be completed after legislative changes are in place and ADEQ develops and provides an annual report template to the RSWMBs for their use.

B. Collection

Action Item #1 - Weekly curbside/roadside and/or drop-off collection services should be made available for all household solid waste for residential dwellings within the state by city, county or private collection.

1. The district boards will be responsible for this action item by developing goals for their solid waste plans.
2. This is a goal for the district boards.
3. Legislation or regulations will not be required. No additional funding will be required.
4. Goal will be measured by each district board polling the counties and cities within their district to identify the services being provided and including those results in their annual report.

Action Item #2 - A minimum of semi-monthly yard waste collection services should be provided for all residential dwellings within the state. Collected wastes must be managed at Class CY compost facility or an alternative approved pursuant to Ark. Code Ann. §8-6-220(b). Each district should include the schedule of implementation within its solid waste plan, beginning with the larger cities.

1. The district boards will be responsible for this action item by developing goals for their solid waste plans. ADEQ will organize a special committee to develop acceptable alternatives to composting.
2. This is a goal for ADEQ and the district boards.
3. No additional funding will be required.
4. Goal will be measured by each district board polling the counties and cities within their district to identify the services being provided and including those results in their annual report. ADEQ will measure this goal by developing and authorizing composting alternatives.

Action Item #3 - Collection services or a suitable alternative (transfer stations or community based drop-off locations) for bulky items should be made available for all residential dwellings within the state. Implementation of the program should be included in each district's plan and be based upon population.

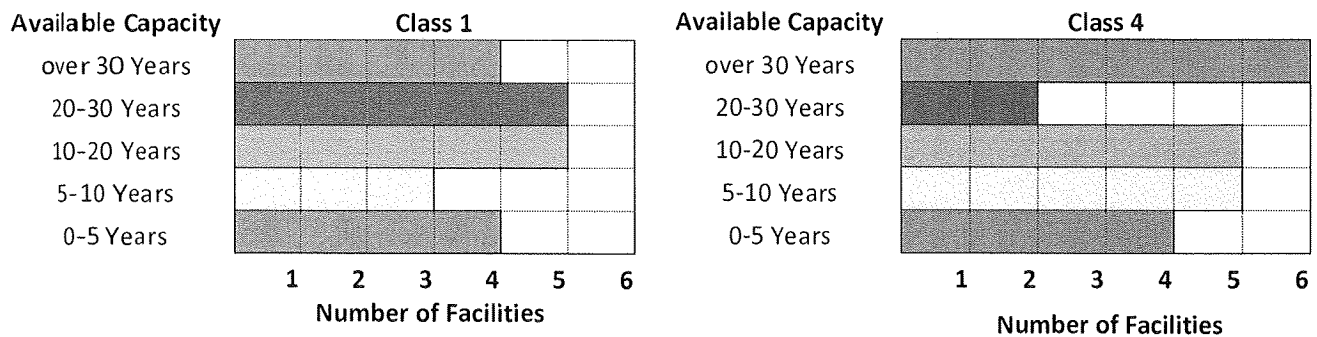
1. The district boards will be responsible for this action item by developing goals for their solid waste plans.
2. This is a goal for the district boards.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be measured by each district board polling the counties and cities within their district to identify the services being provided and including those results in their annual report.

C. Disposal

Action Item #1 – Evaluate the disposal capacity of permitted landfills. Establish a seven-year minimum of disposal capacity for each district. If a district has no existing Class 1 landfill or has a facility with less than seven years' capacity, it could partner with an adjoining district or neighboring state to offer low cost disposal for their residents.

1. The district boards will develop goals for planning and securing disposal capacity to achieve this action item.
2. This is a goal for the district boards.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be measured by each district board reporting at least seven years of permitted disposal capacity available to residents in their annual report.

The two diagrams below represent the number of Class 1 and 4 facilities accepting waste with the number of permitted years remaining for waste disposal based on 2012 Annual Engineering Reports submitted in 2013.



Addendum 1 delineates the locations within each RSWMD of all Class 1, Class 3C, Class 3T, Class 4, and transfer stations currently permitted and accepting waste.

Action Item #2 - Evaluate the waste stream in the geographical area of each district through an annual waste audit. Develop a business plan for the diversion and recycling of waste based on the audit results.

1. The district boards will be responsible for this action item by developing goals for their solid waste plans.
2. This is a goal for the district boards.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be measured by each district board reporting waste audits results and waste diversion program decisions and goals in their annual report.

| Waste Disposal Reported in Tons per Calendar Year (After Recycling) (Data retrieved from Disposal Fee Quarterly Reports) | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|
| | 2006 | 2007 | 2008 | 2009 | 2010 |
| Class 1 & 4 Landfills | 2,782,681 | 2,941,815 | 3,407,238 | 3,191,708 | 2,991,093 |
| 3C and 3N Landfills | 118,023 | 109,504 | 101,295 | 103,579 | 202,459 |
| Out-of-State Disposal | 157,070 | 208,520 | 115,391 | 113,567 | 215,238 |
| Totals | 3,057,774 | 3,259,839 | 3,686,923 | 3,408,854 | 3,408,790 |

A recent database conversion may have resulted in a slight variance in tonnage reported from previous publications.

The volume amounts are taken from quarterly reports that are received by ADEQ from Arkansas solid waste landfills and from waste transporters that transport Arkansas generated waste out of state for disposal, pursuant to Ark. Code Ann. §8-6-607 and §8-6-1004.

Action Item #3 - Expedite the permitting process through the addition of personnel and other resources at ADEQ.

1. ADEQ will accomplish this goal by evaluating the current permitting process. As streamlining opportunities are identified, ADEQ will revise its guidance for the permit review process and develop additional guidance for permit application development.
2. This is an ADEQ goal.
3. No statutory changes will be needed. Regulatory changes may result after evaluation of the permitting process is performed. No additional funding will be needed.
4. The current average permitting timeframe prior to this streamlining evaluation will be the baseline for measurement.

Action Item #4 - Require districts to establish a household hazardous waste program (either permanent sites or collection events) within their boundaries.

1. The district boards will develop goals on establishing HHW programs and collection opportunities for their solid waste plans.
2. This action item is mandated for districts that access the \$2 fee under the authority of Ark. Code Ann. § 8-6-and is a goal for districts that do not access this fee.
3. Legislation or regulations will be required. No additional funding will be required.
4. The mandate/goal will be measured in two ways: (1) If the boards are the program implementers, they will include progress information in their annual reports; (2) in districts where cities and counties have implemented HHW programs and collection events independently, the district board will poll the cities and counties to compile information that shows the entire district's progress in their annual report.

Action Item #5 - Phase in bans of certain materials from landfills, including HHW, e-waste, clean cardboard, etc., and require manufacturer responsibility programs for recycling or reusing those materials.

1. ADEQ will draft legislation to ban wastes from landfilling based on recycling market or reuse option availability and stakeholder input support.
2. This action is mandated for ADEQ.
3. Legislative action would be required on landfill bans for any waste types except for electronic waste, which is authorized to be banned through regulatory changes. Additional funding could be required to ensure that waste materials proposed to be banned are managed in a sustainable manner.
4. Mandate will be tracked and achieved by monitoring ADEQ legislative proposals that result in materials being banned from landfills. The number of items will be tracked by ADEQ.

D. Recycling

The funds received by each district from 2002 thru 2012 from recycling grants are listed below. Funding formulas for recycling grant distribution were detailed in Ark. Code Ann §8-6-609, but that code was repealed on April 18, 2013. The recycling grant program has now been changed to a disbursement as described in Ark. Code Ann §8-6-615, removing the percentage and cap restrictions for administrative funding. The tire and e-waste grant programs remain unchanged.

| RSWMD | Recycle Grant Funding | RSWMD | Recycle Grant Funding |
|--------------------|------------------------------|-------------------|------------------------------|
| | <u>2002-2010</u> | | <u>2002-2010</u> |
| Benton County | \$1,551,165.00 | Pulaski County | \$6,374,816.81 |
| Boston Mountain | \$1,686,593.00 | Saline County | \$1,405,494.49 |
| Central Arkansas | \$2,056,707.02 | Sebastian County | \$3,055,619.26 |
| Craighead County | \$1,689,059.96 | Southeast | \$6,257,459.27 |
| East | \$3,418,088.24 | Southwest | \$4,085,710.59 |
| Faulkner County | \$596,853.15 | Southwest Central | \$3,347,787.00 |
| Mississippi County | \$610,335.00 | Upper- Southwest | \$3,275,162.55 |
| Northeast | \$1,852,281.90 | West River Valley | \$4,925,483.00 |
| Ozark Mountain | \$2,328,031.31 | White River | \$5,968,107.26 |

Action Item #1 - All municipal waste recycling programs (see Addendum 2 for list of programs) should evaluate the economic viability of accepting the following items: paper products including news print, cardboard, white office paper, mixed paper, magazines, junk mail catalogs, phone books, boxboard and chipboard; metals, both steel and aluminum cans; plastic - #1PET, #2 HDPE and others where possible; clear and colored glass (no window glass, glass ceramics, light bulbs or ovenware); and white goods (large residential appliances).

1. The district boards will be responsible for this action item by developing goals to expand their recycling programs as waste audits and economic analyses support.
2. This is a goal for the district boards.
3. Legislation or regulations will not be required. No additional funding will be required. Allocation of recycling funding distributions will be managed by the districts.
4. This goal will be measured by the district boards' annual reports, which will include the locations of all recycling programs, including county and city programs. Annual reports will also include available services and items accepted.

| | | | |
|------------------------------|---------------------------------------|------------------|----------------------------|
| | 2010 Arkansas Population | 2,897,236 | |
| | Reported waste disposal (tons) | 3,408,790 | |
| <u>Waste Type</u> | | | <u>Waste Stream</u> |
| Paper and Paperboard | | 211,989 | 4.2% |
| Food Scraps | | N/A | N/A |
| Yard Trimmings | | 105,424 | 2.1% |
| Plastics | | 68,316 | 1.3% |
| Metals | | 1,079,011 | 21.5% |
| Rubber and Textiles | | 13,276 | .26% |
| Wood | | 60,104 | 1.1% |
| Glass | | 18,406 | .36% |
| Other | | 44,488 | .88% |
| Total Amount Recycled | 1,601,014 | | |
| Total Waste Stream | 5,009,804 | | |
| Arkansas Recycle Rate | 31.7% | | |

**Recycle amounts include only self-reported Industrial, Commercial and mandatory RSWMD reporting*

Action Item #2 - All incorporated cities with a population of 5,000 or more offer residential curbside recycling. Communities of this size must work with the districts to make available convenient opportunities for commercial and multi-family recycling. A minimum of semi-monthly collection services or a suitable alternative system (e.g. transfer stations) for recyclable material collection should be made available for all residential dwellings within the state. Cities should be required to implement a curbside recycling program, beginning with the most populated cities and eventually including cities of all sizes. The implementation schedule should become part of each district's plan.

1. The district boards will be responsible for this action item by developing goals to establish curbside recycling in all communities with a population of 5,000 or more.
2. This is a goal for the district boards.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be measured by the district boards' progress with their implementation schedule. As outlined below and in Addendum 2, Arkansas is well on its way towards meeting this goal.

**Existing Curbside Recycling Programs in Cities
with Populations Greater Than 5,000**

| Benton County RSWMD | | Northeast Arkansas | | Southwest Arkansas | |
|-------------------------------|-----|-------------------------------|-----|--------------------------------|-----|
| Bella Vista | Yes | Paragould | No | Camden | No |
| Bentonville | Yes | Pocahontas | No | El Dorado | No |
| Centerton | Yes | Ozark Mountain RSWMD | | Magnolia | Yes |
| Lowell | Yes | Berryville | Yes | Texarkana | No |
| Rogers | Yes | Harrison | Yes | Southwest Central | |
| Siloam Springs | Yes | Mountain Home | Yes | Arkadelphia | Yes |
| Boston Mountain RSWMD | | Pulaski County RSWMD | | Hot Springs | Yes |
| Farmington | Yes | Jacksonville | Yes | Malvern | No |
| Fayetteville | Yes | Little Rock | Yes | Upper Southwest RSWMD | |
| Springdale | Yes | Maumelle | Yes | DeQueen | No |
| Central Arkansas RSWMD | | North Little Rock | Yes | Hope | No |
| Cabot | Yes | Sherwood | Yes | Mena | No |
| Craighead County RSWMD | | Saline County RSWMD | | West River Valley RSWMD | |
| Jonesboro | Yes | Benton | No | Alma | No |
| East Arkansas RSWMD | | Bryant | No | Clarksville | No |
| Forrest City | No | Sebastian County RSWMD | | Morrilton | Yes |
| Helena-West Helena | No | Fort Smith | Yes | Russellville | Yes |
| Marion | No | Greenwood | Yes | Van Buren | Yes |
| Trumann | No | Southeast Arkansas | | White River RSWMD | |
| West Memphis | No | Crossett | No | Batesville | Yes |
| Wynne | Yes | Monticello | Yes | Beebe | Yes |
| Faulkner County RSWMD | | Pine Bluff | No | Heber Springs | Yes |
| Conway | Yes | Stuttgart | No | Newport | No |
| Mississippi County | | Warren | No | Searcy | Yes |
| Blytheville | Yes | White Hall | No | | |
| Osceola | No | | | | |

Action Item #3 - Districts will encourage the development and implementation of public venue/special event recycling programs. Districts will offer guidance for best management practices, education assistance and information, along with collection and marketing strategies for public venue facilities and special events. Districts will discourage use of non-recyclable items like Styrofoam cups.

1. District Boards will be responsible for this action item by developing goals for their solid waste plans.
2. This is a goal for the district boards.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be measured by the district boards reporting the special event recycling programs in their annual report.

E. Special Recoverable Materials

Special Waste Definition: (APC&EC Reg. 22.102) - any materials that require special handling precautions and disposal procedures for the landfill owner or operator beyond the normal activities associated with landfill operations.

Action Item #1 - Establish a series of workshops and/or committees to explore the alternative uses of special recoverable materials in other states. This recommendation should be implemented in early 2014.

1. ADEQ will accomplish this goal by establishing committees to review how other states permit and/or allow alternative uses of special recoverable materials.
2. This is a goal established for ADEQ.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be measured by ADEQ tracking the output of workshops and committees developed for alternate uses for special waste.

Action Item #2 - Develop an ongoing directory of special recoverable materials that, if diverted from landfills, would conserve resources and provide an additional market of reusable materials. The use of these materials should follow American Societies and Testing Materials (ASTM) standards or other industry criteria.

1. ADEQ will accomplish this goal by developing and maintaining a directory of special recoverable materials that follow ASTM standards and other industry criteria.
2. This is a goal established for ADEQ.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be monitored by ADEQ establishing a directory for diversion and alternate use options for special recoverable materials using insight from stakeholders and researching other states efforts.

Action Item #3 - Encourage and incentivize the use of thermal recovery from municipal, commercial and industrial sources.

1. ADEQ will accomplish this goal by establishing a benchmark of the industries that currently use thermal recovery and by researching methods of incentivizing the use of thermal recovery.
2. This is a goal established for ADEQ.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be measured by ADEQ building a directory of organizations that utilize thermal recovery. ADEQ will clarify the applicability of the Recycling Tax Credit Program to thermal recovery projects.

Action Item #4 - Encourage ADEQ and districts to exercise due diligence in the selection, use and operation of recycling and disposal facilities.

1. ADEQ will accomplish this goal by reviewing their procurement processes and selection of vendors and will continue to maintain the Department website with current information on inspections and enforcement actions for permitted facilities. The district boards will accomplish this goal by developing goals for their solid waste plans that include criteria for due diligence in their procurement processes.
2. This is a goal established for ADEQ and district boards.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be measured by ADEQ developing a checklist for evaluating the compliance status of potential vendors for use by ADEQ and district boards in their respective procurement processes. ADEQ will continue to update their website with all inspections and enforcement actions.

Action Item #5 - Develop an illegal dump program that provides additional resources to identify and remediate illegal dumps, while providing education and enforcement to prevent future dumping.

1. ADEQ will develop proposals to fund illegal dump remediation. The district boards will be responsible for this action by establishing goals for developing district illegal dump programs.
2. This is a goal established for ADEQ and district boards.
3. Legislation will be required to establish a funding source and fund allocation system for this program.
4. This goal will be completed after legislative changes are in place and district boards begin reporting the identification and cleanup of illegal dumps in their districts and their educational programs to prevent illegal dumping in their annual reports. The current number of illegal dumps reported to and confirmed by ADEQ will be compared to the inventory in upcoming years.

F. Education and Public Participation

Action Item #1 - Implement a statewide media campaign addressing various avenues of solid waste management, including proper disposal, handling special waste streams (paint, sharps, HHW), waste reduction and recycling. The campaign should also address improper/illegal disposal (e.g., burn barrels, burning household wastes, etc.). Pick-up Arkansas should be considered as a model. Develop a media and/or education campaign that recognizes and explains the current and future costs of (1) transporting, diverting, recycling and disposing of solid waste, (2) operating a properly run disposal facility, (3) maintaining closed landfills, and (4) emerging technologies. The campaign should also emphasize the economic impact a properly operated disposal program will have on local and state economic development.

1. ADEQ will develop an annual campaign that focuses on different waste issues each year, as well as the cost of solid waste management.
2. This is a goal established for ADEQ.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be monitored by tracking the different media outlets used by ADEQ to educate and disseminate information addressing solid waste matters.

Action Item #2 - Every regional solid waste management district should have an updated, accurate website (or webpages on a partner's website) that provides citizens easy-to-use access to information about recycling, composting, waste reduction and waste management services in their communities.

Information should include which materials are accepted, days and hours of operation, physical location, how materials are collected/accepted and contact information for further questions. The districts are to ensure that city and county recycling/diversion programs are financially sustainable and are using best management practices.

1. The district boards will each develop and maintain a website or webpage for their citizens. They will ensure the website is accurate and maintained with current solid waste information.
2. This is a mandate established for district boards.
3. New legislation and/or regulations, as well as additional funding, may be required.
4. This mandate will be measured by each district having an operational, updated web presence. This mandate may be accomplished by combining resources with counties or cities within the district.

Action Item #3 - Districts should develop partnerships within communities to improve information dissemination. Solid waste districts and individual waste management entities (cities, counties, designated

recycling collection centers, etc.) should use social media to increase awareness of waste management methods and opportunities.

1. District boards will be responsible for this action item by developing goals for their solid waste plans.
2. This is a goal established for district boards.
3. Legislation or regulations will not be required. No additional funding will be required.
4. This goal will be monitored by district boards providing information regarding partnership efforts and examples of social media utilization in their annual reports.

PART 3

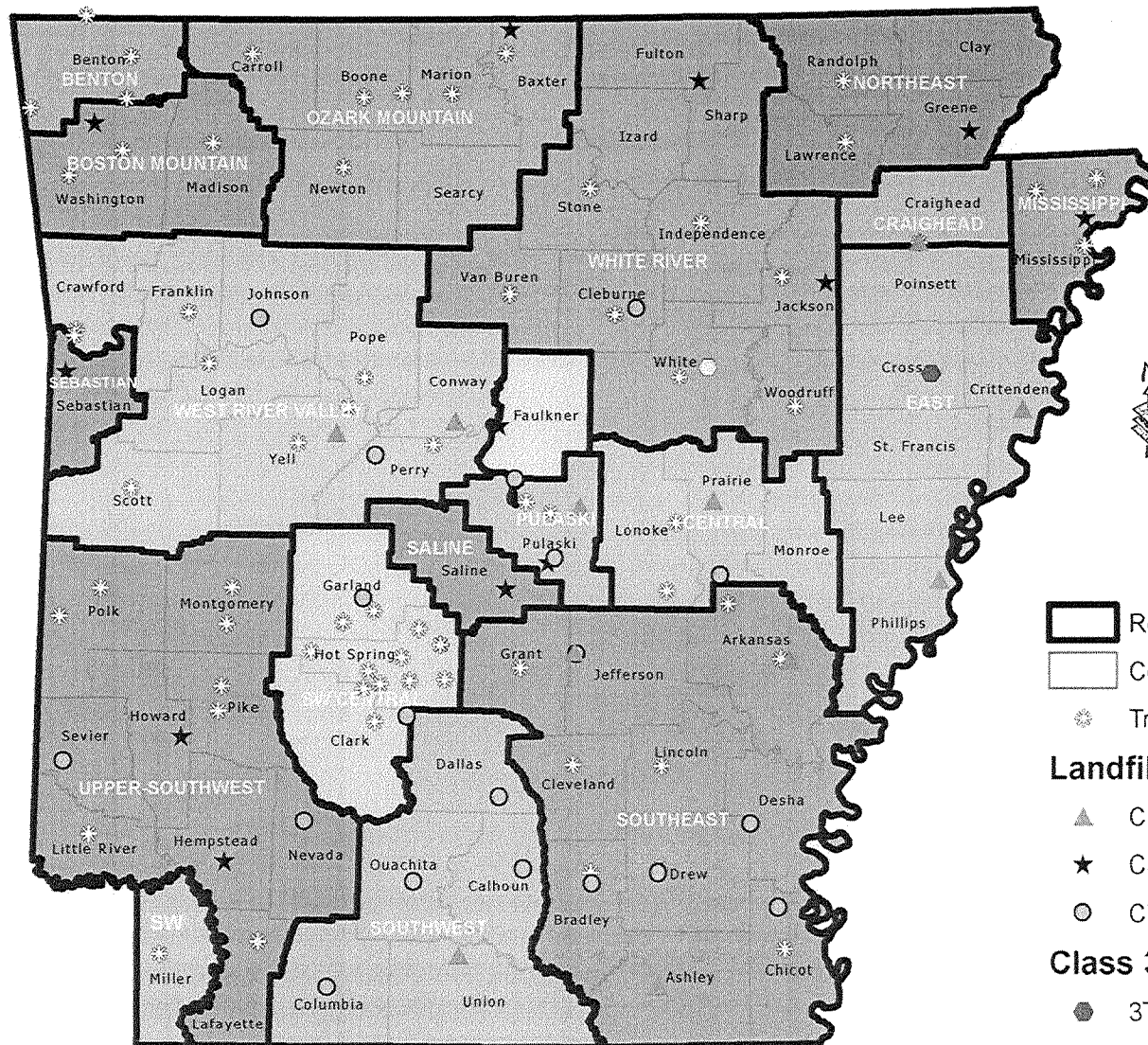
Implementation Schedule

| Action Items | Schedule |
|--|--|
| Statewide Solid Waste Management Plan | Effective April 2014 |
| ADEQ will develop template for district board plans. | June 2014 |
| ADEQ will draft legislation to ban materials from landfills based on recycling markets and stakeholder feedback. | Ongoing evaluation of markets |
| ADEQ will establish workshops and/or committees to explore the alternative uses of special recoverable materials in other states. | June 2014 |
| ADEQ will develop a directory of special recoverable materials. | Ongoing |
| ADEQ will organize a committee to develop acceptable alternatives to composting. | June 2014 |
| ADEQ will evaluate the permit review process and develop guidance for permit application development. | July 2014 |
| ADEQ will build a directory of organizations that utilize thermal recovery. | September 2014 |
| ADEQ will clarify the applicability of the Recycling Tax Credit Program to thermal recovery projects. | June 2014 |
| ADEQ will develop a checklist for evaluating the compliance status of potential vendors for use by ADEQ and RSWMDs in their procurement processes. | June 2014 |
| ADEQ will develop a statewide media campaign addressing solid waste issues. | Ongoing |
| ADEQ will develop proposals to fund illegal dump remediation. | January 2015 |
| District boards will submit solid waste plans. | One year after effective date of Statewide Solid Waste Management Plan |
| ADEQ will propose legislation to revise §8-6-716 (regional needs assessment). | January 2015 |
| RSWMDs submit second needs assessment. | February 2018 |
| ADEQ will conduct five-year review of planning process. | January 2019 |
| ADEQ will begin planning process for 2024 Statewide Solid Waste Management Plan. | Summer 2022 |

Solid Waste Management Facilities



Teresa Marks, Director



MAP DISCLAIMER: This map is intended to represent the general locations of the features displayed. This map should be used for reference purposes only.

Regional SW Management Districts

Counties

Transfer Stations

Landfill Classification

▲ Class 1

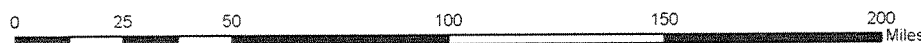
★ Class 1 & 4

○ Class 4

Class 3 Sites

● 3T & 3C

○ 3T



Map Revised 2 January 2014

Recycling Locations by District, County and City

Addendum 2

| District | County | City | Curbside | Drop-off | Drop-off Provider |
|------------------|------------------|---------------------------------|----------|----------|-------------------|
| Benton County | Benton | Avoca | Yes | No | |
| Benton County | Benton | Bella Vista | Yes | Yes | AARP |
| Benton County | Benton | Bentonville | Yes | Yes | Compost Facility |
| Benton County | Benton | Bethel Heights | Yes | No | |
| Benton County | Benton | Cave Springs | Yes | Yes | District |
| Benton County | Benton | Centerton | Yes | Yes | District |
| Benton County | Benton | Decatur | No | Yes | District |
| Benton County | Benton | Garfield | Yes | No | |
| Benton County | Benton | Gentry | No | Yes | District |
| Benton County | Benton | Gravette | No | Yes | District |
| Benton County | Benton | Highfill | No | Yes | City |
| Benton County | Benton | Little Flock | Yes | No | City |
| Benton County | Benton | Lowell | Yes | No | |
| Benton County | Benton | Pea Ridge | No | Yes | District |
| Benton County | Benton | Rogers | Yes | Yes | City |
| Benton County | Benton | Siloam Springs | Yes | Yes | City |
| Boston Mountain | Madison | Huntsville | No | Yes | County |
| Boston Mountain | Madison | St. Paul | Yes | Yes | County |
| Boston Mountain | Washington | Elkins | Yes | Yes | County |
| Boston Mountain | Washington | Elm Springs | Yes | Yes | District |
| Boston Mountain | Washington | Farmington | Yes | No | |
| Boston Mountain | Washington | Fayetteville | Yes | Yes | City |
| Boston Mountain | Washington | Greenland | No | Yes | District |
| Boston Mountain | Washington | Lincoln | No | Yes | County |
| Boston Mountain | Washington | Prairie Grove | Yes | Yes | District |
| Boston Mountain | Washington | Springdale | Yes | Yes | District |
| Boston Mountain | Washington | Washington County | No | Limited | County |
| Boston Mountain | Washington | West Fork | No | Yes | District |
| Boston Mountain | Washington | Winslow | No | Yes | District |
| Central Arkansas | Districtwide | 68 drop-off bins/Cardboard only | No | Limited | District |
| Central Arkansas | Lonoke | Cabot | Yes | Yes | City |
| Central Arkansas | Lonoke | Lonoke | No | Yes | City |
| Central Arkansas | Monroe & Prairie | Hazen | No | Yes | City |
| Craighead County | Craighead | Bay | Yes | No | |
| Craighead County | Craighead | Bono | Yes | No | |
| Craighead County | Craighead | Brookland | Yes | Yes | Marek Recycling |

Recycling Locations by District, County and City

| District | County | City | Curbside | Drop-off | Drop-off Provider |
|---------------------------|-------------|---|----------|----------|--------------------------------|
| Craighead County | Craighead | Caraway | Yes | No | |
| Craighead County | Craighead | Jonesboro | Yes | Yes | District & Abilities Unlimited |
| Craighead County | Craighead | Lake City | Yes | No | |
| Craighead County | Craighead | Monette | Yes | No | |
| East Arkansas | | Jonesboro | No | Yes | District |
| East Arkansas | Crittenden | Crittenden County | No | Yes | County |
| East Arkansas | Crittenden | West Memphis | No | Yes | City |
| East Arkansas | Cross | Wynne | Yes | Yes | Cross-County Special Workshop |
| East Arkansas | Lee | Marianna | No | Yes | City |
| East Arkansas | Phillips | Helena-West Helena | No | Limited | City |
| East Arkansas | Poinsett | Harrisburg | No | Yes | City |
| East Arkansas | Poinsett | Marked Tree | No | Yes | City |
| East Arkansas | Poinsett | Trumann | No | Yes | City |
| East Arkansas | St. Francis | Forrest City | No | Yes | City |
| East Arkansas | St. Francis | Madison | No | Yes | NEARCO |
| East Arkansas | St. Francis | Palestine | No | Yes | City |
| East Arkansas | St. Francis | Wheatley | No | Yes | City |
| Faulkner County | Faulkner | Conway | Yes | Yes | City |
| Faulkner County | Faulkner | Damascus | Yes | Yes | District |
| Faulkner County | Faulkner | Greenbrier | Yes | Yes | District |
| Faulkner County | Faulkner | Guy/District | Yes | Yes | District |
| Faulkner County | Faulkner | Mayflower | Yes | Yes | District |
| Faulkner County | Faulkner | Mt. Vernon | Yes | Yes | District |
| Faulkner County | Faulkner | Vilonia | Yes | Yes | District |
| Faulkner County | Faulkner | Wooster | Yes | Yes | District |
| Faulkner County | Faulkner | Countywide Curbside (if home is within a 3-mile radius of 20 other homes) | Yes | No | |
| Mississippi County | Mississippi | Blytheville | Yes | Yes | Nuway |
| Mississippi County | Mississippi | Etowah | No | Yes | City |
| Mississippi County | Mississippi | Gosnell | No | Yes | City |
| Mississippi County | Mississippi | Manila | No | Yes | City |
| Mississippi County | Mississippi | Osceola | No | Yes | City |
| NE Arkansas | Clay | Corning | No | Yes | District |
| Northeast Arkansas | Clay | Piggott | No | Yes | District |
| Northeast Arkansas | Clay | Rector | No | Yes | District |
| Northeast Arkansas | Greene | Marmaduke | No | Yes | District |

Recycling Locations by District, County and City

| District | County | City | Curbside | Drop-off | Drop-off Provider |
|--------------------|----------|-------------------|----------|----------|----------------------------|
| Northeast Arkansas | Greene | Paragould | No | Yes | District |
| Northeast Arkansas | Lawrence | Hoxie | No | Yes | District |
| Northeast Arkansas | Lawrence | Walnut Ridge | No | Yes | District |
| Northeast Arkansas | Randolph | Pocahontas | No | Yes | District |
| Ozark Mountain | Baxter | Cotter | No | Yes | Baxter Day Service |
| Ozark Mountain | Baxter | Gassville | No | Yes | Baxter Day Service |
| Ozark Mountain | Baxter | Mountain Home | Yes | Yes | Baxter Day Service |
| Ozark Mountain | Boone | Harrison | Yes | Yes | Inland & Methvin |
| Ozark Mountain | Carroll | Berryville | Yes | Yes | Carroll County Solid Waste |
| Ozark Mountain | Carroll | Eureka Springs | Yes | Yes | Carroll County Solid Waste |
| Ozark Mountain | Carroll | Green Forest | Yes | Yes | Carroll County Solid Waste |
| Ozark Mountain | Marion | Bull Shoals | No | Yes | County |
| Ozark Mountain | Marion | Yellville | No | Yes | County |
| Ozark Mountain | Newton | Jasper | Yes* | Yes | County |
| Ozark Mountain | Searcy | Leslie | Yes | Yes | County |
| Ozark Mountain | Searcy | Marshall | No | Yes | County |
| Ozark Mountain | Searcy | St. Joe | Yes | Yes | County |
| Ozark Mountain | Searcy | Witt Springs | Yes | Yes | County |
| Pulaski County | Pulaski | Jacksonville | Yes | Yes | City |
| Pulaski County | Pulaski | Little Rock | Yes | Yes | City |
| Pulaski County | Pulaski | Maumelle | Yes | Yes | City |
| Pulaski County | Pulaski | North Little Rock | Yes | Yes | City |
| Pulaski County | Pulaski | Little Rock | No | Yes | City |
| Pulaski County | Pulaski | Sherwood | Yes | Yes | City |
| Saline County | Saline | Alexander | No | Yes | City |
| Saline County | Saline | Bauxite | No | Yes | City |
| Saline County | Saline | Benton | No | Yes | City |
| Saline County | Saline | Bryant | No | Yes | City |
| Saline County | Saline | East End | No | Yes | City |
| Saline County | Saline | Haskell | No | Yes | City |
| Saline County | Saline | Shannon Hills | No | Yes | City |
| SE Arkansas | Arkansas | DeWitt | No | Yes | City |
| Southeast Arkansas | Arkansas | Stuttgart | No | Yes | City |
| Southeast Arkansas | Ashley | Crossett | No | Yes | Ashley Co Skilled WC |
| Southeast Arkansas | Ashley | Hamburg | No | Yes | County |
| Southeast Arkansas | Bradley | Warren | No | Yes | County |

Recycling Locations by District, County and City

| District | County | City | Curbside | Drop-off | Drop-off Provider |
|--------------------------|------------|-------------------------------------|--------------|----------|------------------------------|
| Southeast Arkansas | Chicot | Lake Village | No | Yes | County |
| Southeast Arkansas | Cleveland | Rison/County | No | Yes | County |
| Southeast Arkansas | Desha | Arkansas City | No | Limited | County |
| Southeast Arkansas | Desha | Dumas/Dumas | No | Yes | Dumas/Desha Recycling Center |
| Southeast Arkansas | Drew | Monticello | Yes | Yes | City |
| Southeast Arkansas | Grant | Sheridan | No | Yes | County |
| Southeast Arkansas | Jefferson | Pine Bluff | No | Yes | County & City |
| Southeast Arkansas | Lincoln | Star City | No | Yes | County |
| Sebastian County | Sebastian | Barling | Yes | Yes | District |
| Sebastian County | Sebastian | Fort Smith | Yes | Yes | City |
| Sebastian County | Sebastian | Greenwood | Subscription | Yes | City |
| Sebastian County | Sebastian | Hartford/District | No | Yes | District |
| Sebastian County | Sebastian | Hackett/District | No | Yes | District |
| Sebastian County | Sebastian | Lavaca/District | No | Yes | District |
| Sebastian County | Sebastian | Mansfield | No | Yes | City |
| Sebastian County | Sebastian | Fort Smith | No | Yes | District |
| SW Arkansas | Calhoun | Hampton/County | Yes | Yes | County |
| Southwest Arkansas | Columbia | Magnolia | Yes* | Yes | County & Abilities Unlimited |
| Southwest Arkansas | Dallas | Fordyce | No | Yes | County |
| Southwest Arkansas | Miller | Texarkana | No | Yes | City |
| Southwest Arkansas | Ouachita | Camden/County & Ouachita Industries | No | Yes | City |
| Southwest Arkansas | Union | El Dorado | No | Yes | City |
| Southwest Arkansas | Union | Smackover | No | Yes | City |
| Southwest Central | Clark | Arkadelphia | No | Yes | City |
| Southwest Central | Clark | Gurdon | No | Yes | City |
| Southwest Central | Clark | Okolona | No | Yes | City |
| Southwest Central | Garland | Garland County | No | Yes | County |
| Southwest Central | Garland | Hot Springs Village | Yes | Yes | City |
| Southwest Central | Garland | Hot Springs Village | Yes | Yes | City |
| Southwest Central | Hot Spring | Amity | No | Yes | County |
| Southwest Central | Hot Spring | Bismarck | No | Yes | County |
| Southwest Central | Hot Spring | Donaldson | No | Yes | County |
| Southwest Central | Hot Spring | Friendship | No | Yes | County |
| Southwest Central | Hot Spring | Malvern | No | Yes | County |
| Upper Southwest | Hempstead | Blevins | No | Yes | Nevada Co Recycle & Work Ctr |
| Upper Southwest | Hempstead | Hope | No | Yes | Rainbow of Challenges |

Recycling Locations by District, County and City

| District | County | City | Curbside | Drop-off | Drop-off Provider |
|--------------------------|--------------|---------------------------------|----------|----------|--------------------------------------|
| Upper Southwest | Howard | Center Point Schools | No | Yes | District |
| Upper Southwest | Howard | Dierks | No | Yes | District |
| Upper Southwest | Howard | Mineral Springs | No | Yes | City |
| Upper Southwest | Howard | Nashville | No | Yes | District & HC Children's Ctr |
| Upper Southwest | Howard | Toilette | No | Yes | District |
| Upper Southwest | Howard | Umpire | No | Yes | District |
| Upper Southwest | Lafayette | Lewisville | No | Yes | County Transfer Station |
| Upper Southwest | Lafayette | Stamps | No | Yes | City |
| Upper Southwest | Little River | Ashdown | No | Yes | District & HC Children's Ctr |
| Upper Southwest | Little River | Foreman | No | Yes | District |
| Upper Southwest | Little River | Yarborough Landing@ Millwood SP | No | Yes | District & HCCC |
| Upper Southwest | Montgomery | Caddo Hills Schools | No | Yes | County |
| Upper Southwest | Montgomery | Mount Ida | No | Yes | District & County |
| Upper Southwest | Montgomery | Norman | No | Yes | District & County |
| Upper Southwest | Nevada | Prescott | No | Yes | Nevada Co Recycle & Work Ctr |
| Upper Southwest | Pike | Center Point School | No | Yes | Howard County Children's Ctr |
| Upper Southwest | Pike | Delight | No | Yes | District |
| Upper Southwest | Pike | Glenwood | No | Yes | District & Montgomery County |
| Upper Southwest | Pike | Kirby | No | Yes | District |
| Upper Southwest | Pike | Murfreesboro | No | Yes | District & Howard Co. Children's Ctr |
| Upper Southwest | Polk | Mena | No | Yes | Polk County Development Ctr |
| Upper Southwest | Sevier | Gillham | No | Yes | District |
| Upper Southwest | Sevier | Horatio | No | Yes | District |
| Upper Southwest | Sevier | Lockesburg | No | Yes | District |
| West River Valley | Crawford | Alma | No | Yes | District |
| West River Valley | Franklin | Branch | No | Yes | District |
| West River Valley | Franklin | Charleston | No | Yes | District |
| West River Valley | Johnson | Clarksville | No | Yes | District, County & City |
| West River Valley | Conway | Hattieville | No | Yes | District (Wonderview School) |
| West River Valley | Johnson | Lamar | No | Yes | District |
| West River Valley | Logan | Booneville | No | Yes | County |
| West River Valley | Logan | Paris | No | Yes | District & County |
| West River Valley | Franklin | Ozark | Yes | Yes | County |
| West River Valley | Perry | Perryville | No | Yes | District & County |
| West River Valley | Pope | Russellville | Yes | Yes | District |
| West River Valley | Conway | Morrilton | Yes | Yes | City & Conway Co. Community Ctr |

Recycling Locations by District, County and City

| District | County | City | Curbside | Drop-off | Drop-off Provider |
|-------------------|--------------------|------------------|----------|----------|--------------------------|
| West River Valley | Scott | Waldron | Yes | Yes | District, County & City |
| West River Valley | Logan | Scranton | No | Yes | District |
| West River Valley | Crawford | Van Buren | Yes | Yes | District & City |
| West River Valley | Yell | Dardanelle | No | Yes | District & County |
| White River | Cleburne | Greer's Ferry | No | Yes | City |
| White River | Cleburne | Heber Springs | Yes | Yes | City & Service Recycling |
| White River | Fulton | Mammoth Springs | No | Yes | City |
| White River | Fulton | Salem | No | Yes | City |
| White River | Fulton | Viola | No | Yes | City |
| White River | Fulton/Izard/Sharp | Cherokee Village | No | Yes | Tri-County Recycling |
| White River | Independence | Batesville | Yes* | Yes | County |
| White River | Izard | Calico Rock | No | Yes | City |
| White River | Izard | Horseshoe Bent | No | Yes | City |
| White River | Izard | Melbourne | No | Yes | City |
| White River | Jackson | Diaz | No | Yes | City |
| White River | Jackson | Newport | No | Yes | County |
| White River | Jackson | Tuckerman | No | Yes | City |
| White River | Sharp | Ash Flat | No | Yes | City |
| White River | Sharp | Cherokee Village | No | Yes | City |
| White River | Sharp | Hardy | No | Yes | City |
| White River | Stone | Fox & Timbo | No | Yes | County |
| White River | Stone | Mountain View | Yes | Yes | City & County |
| White River | Van Buren | Clinton | Yes | Yes | City & County |
| White River | Van Buren | Fairfield Bay | No | Yes | Hippe FFB Recycling |
| White River | White | Bald Knob | No | Yes | City |
| White River | White | Beebe | Yes | Yes | City |
| White River | White | McRae | No | Yes | City |
| White River | White | Searcy | Yes | Yes | City |
| White River | Woodruff | Agusta | Yes | Yes | City |
| White River | Woodruff | McCrory | Yes | Yes | City |
| White River | Woodruff | Patterson | No | Yes | City |

*in curbside column means the curbside program runs countywide.

PART TWO – Recommendations for the 2013-2023 State and Regional Solid Waste Plans

A. Needs Assessment Subcommittee Recommendations

Recommendation #1 - Change the statutes and/or regulations to reflect a change in the purpose of the Needs Assessment and Solid Waste Management Plan (from tracking waste across RSWMD jurisdictional boundaries and providing for disposal capacity) to meeting the goals of waste diversion, as established in the state and district solid waste management plans.

Statutory and regulatory changes will be required.

Implementation will not require additional funding but may require changes in how funds are distributed by ADEQ and the projects approved by regional solid waste management districts.

Recommendation #2 - Change the time frames so that each district updates its Needs Assessment and Solid Waste Management Plan every five years. For proper sequencing, the first Needs Assessment would be due in year four, and the Solid Waste Management Plan update due the next year. This would clarify the times in which certain plan elements are due, which are currently confusing and sometimes contradictory.

Statutory and regulatory changes will be required.

Recommendation #3 - Require that each district provide only an annual report updating the district's progress toward goals in its own 10-year plan. This would be a short, simple report.

This recommendation may require changes in either the statutes or legislation, depending on which avenue will be required to effect the change.

B. Collection Subcommittee Recommendations

Recommendation #1 - Weekly curbside/roadside collection services should be established for all household solid waste for residential dwellings within the state.

Necessary funding can be gained through user fees, taxes or other fee authority at the local level.

Recommendation #2 - A minimum of semi-monthly collection services or a suitable alternative system (transfer stations) for recyclable material collection should be made available for all residential dwellings within the state. Cities should be required to implement a curbside recycling program, beginning with the most populated cities and eventually including cities of all sizes. The implementation schedule should become part of each district's plan.

Legislation may be required. Funding will be required.

Recommendation #3 - A minimum of semi-monthly yard waste collection services or a suitable Class Y compost facility should be provided for all residential dwellings within the state. Each city within the state should be required to provide such a yard waste program. Each district should include the schedule of implementation within its solid waste plan, beginning with the larger cities. Once this program is implemented, the state should consider implementation of a statewide ban on yard waste.

Legislation will be required, and local government will need additional financial resources.

Recommendation #4 - Weekly curbside/roadside collection services or a suitable alternative (transfer stations or community based drop-off locations) for bulky items should be made available for all residential dwellings within the state. Implementation of the program should be included in each district's plan and be based upon population.

Legislation will not necessarily be required but would be helpful for uniform application across the state.

Additional local revenue will be required.

Recommendation #5 - Each district must have a waste tire program that accepts all the tires within the district. It must be adequate to handle all of the tires generated by residents and businesses within the district's area.

Districts should evaluate the current and future costs of managing waste tire programs and decide whether or not to seek adjustment to the fees currently collected by the state for this program.

C. Disposal Subcommittee Recommendations

Recommendation #1 - Evaluate the disposal capacity of permitted landfills. Establish a 10-year minimum of disposal capacity for each district.

Legislation may be required; any type of partnership in disposal should be by written agreement, with proper legal notifications to each district and recognized by the courts.

If a district has no existing Class 1 landfill or has a facility with less than 10 years' capacity, it could partner with an adjoining district to offer low cost disposal for their residents. Funding would be necessary for new facilities or the implementation of new technologies.

Recommendation #2 - Evaluate the waste stream of permitted landfills through a six-month waste audit. Develop a business plan for the diversion and recycling of waste based on the audit results.

Compliance will require legislation. Facilities may need additional funding.

Recommendation #3 - Expedite the permitting process through the addition of personnel and other resources at ADEQ.

Legislation may be required. Funding will be required.

Recommendation #4 - Allow for the establishment of “dirty” material recovery facilities (MRFs) at permitted landfills.

Legislation will be required. Facilities will need additional labor, space and markets.

Recommendation #5 - Require districts to establish Household Hazardous Waste sites within their boundaries.

Funding and additional regulations may be required.

Recommendation #6 - Phase in bans of certain materials from landfills, including HHW, e-waste, clean cardboard, etc., and require manufacturer responsibility programs for recycling or reusing those materials.

Legislation will be required and funding will be required.

Recommendation #7 - Develop a media and/or education campaign that recognizes and explains the current and future costs of (1) transporting, diverting, disposing and recycling solid waste, (2) operating a properly run disposal facility, (3) maintaining closed landfills, and (4) developing emerging technologies. The campaign should also emphasize the economic impact a properly operated disposal program will have on local and state economic development.

Legislation and funding will be required.

D. Recycling Subcommittee Recommendations

Recommendation #1 - To be complete, all recycling efforts will need to accept the following items: paper products, including news print, cardboard, white office paper, mixed paper, magazines, junk mail catalogs, phone books, boxboard and chipboard; metals, both steel and aluminum cans; plastic - #1PET, #2 HDPE and others where possible; clear and colored glass (no window glass, glass ceramics, light bulbs or ovenware); electronics, including personal electronic devices, televisions, stereos and computers; white goods (large residential appliances); tires and car batteries. All cities should have recycling in some form to include these items.

Legislation will be required. Financial needs will have to be determined as the project moves forward and a trend is established in the amount of money recaptured from selling recycled items.

Recommendation #2 - Require all districts working in association with communities and counties to maintain websites for public access with an updated list of all materials collected, location of collection sites, contact information and alternative disposal options for waste materials. The districts are to ensure that city and county recycling/diversion programs are financially sustainable and are using best management practices.

Legislation will be required. Minor funding may be required.

Recommendation #3 - The 10-year goal is to have all incorporated cities with a population of 5,000 or more to offer residential curbside recycling and trash services. Communities of this size must work with the districts to make available convenient opportunities for commercial and multi-family recycling.

Legislation will be required.

Recommendation #4 - The 10-year goal is to have all incorporated cities with a population of less than 5,000 offer convenient residential, multi-family, and commercial recycling opportunities, such as drop off locations. This should be done in cooperation with the districts.

This will probably require legislation. Funding should come from the districts.

Recommendation #5 - Districts will encourage the development and implementation of public venue/special event recycling programs. Districts will offer guidance for best management practices, education assistance and information, along with collection and marketing strategies for public venue facilities and special events. Districts will discourage use of non-recyclable items like Styrofoam cups.

Legislation and funding will be required.

E. Special Materials Subcommittee Recommendations

Recommendation #1

Establish a series of workshops and/or a committee to explore the alternative uses of special materials in other states. This recommendation should be implemented in early 2014.

Funding might be necessary for travel.

Recommendation #2 - Develop an on-going directory of special materials that, if diverted from landfills, would conserve resources and provide an additional market of reusable materials. The use of these materials should follow ASTM standards or other industry criteria. This directory should be ready to go on the ADEQ website by June 1, 2014.

Regulations may need revision. Funding may be required.

Recommendation #3 - Encourage and incentivize the use of thermal recovery from municipal, commercial and industrial sources.

Legislation may be required. Tax credits and financial incentives will be required.

Recommendation #4 - Require ADEQ and districts to exercise CERCLA due diligence in the selection, use and operation of recycling and disposal facilities.

Legislation may be required. Funding will be required.

Recommendation #5 - Develop an illegal dump program that provides additional resources to identify and remediate illegal dumps, while providing education, enforcement, and restricted access to prevent future dumping.

Legislation may be required. Incentives for cities, counties, and RSWMDs will be required.

F. Education and Public Participation Subcommittee Recommendations

Recommendation #1 - Implement a statewide media campaign addressing various avenues of solid waste management, including proper disposal, handling special waste streams (paint, sharps, HHW), waste reduction and recycling. The campaign should also address improper/illegal disposal (e.g., burn barrels, burning household wastes etc.). Pick-up Arkansas should be considered as a model.

Funding will be required.

Recommendation #2 - Every regional solid waste management district should have an updated, accurate website that provides citizens easy-to-use access to information about recycling, composting, waste reduction and waste management services in their communities. Information should include what materials are accepted, days and hours of operation, physical location, how materials are collected/accepted and contact information for further questions. [Example: White River Regional Solid Waste Management website.]

Recommendation #3 - Districts should develop partnerships within communities to improve information dissemination.

Recommendation #4 - Solid waste districts and individual waste management entities (cities, counties, designated recycling collection centers, etc.) should use social media to increase awareness of waste management methods and opportunities.

Recommendation #5 - Requirements for teaching environmental education in schools should be increased/expanded or established.

Legislation may be required.