

BROWNFIELDS REDEVELOPMENT TOOLBOX

A Guide to Assist
Rural Communities
in Redeveloping
Arizona's Brownfields

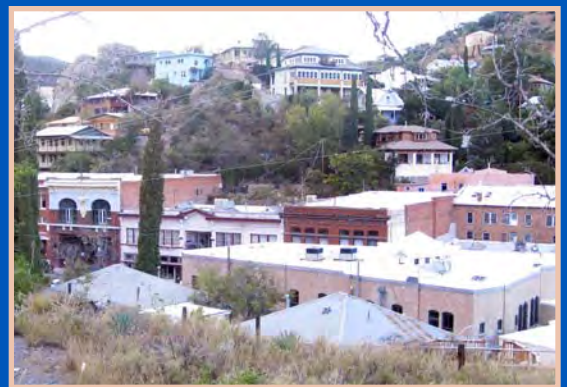


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Introduction

The Brownfields Redevelopment Toolbox was developed by the Association of State and Territorial Solid Waste Management Officials (ASTSWMO) State Response Program and Brownfields Operation Task Force.

Purpose of this Toolbox

The purpose of this Toolbox is to explain the Brownfields process in straightforward terms, and provide rural and smaller city governments/entities/communities with a systematic, start-to-finish, guide to Brownfields redevelopment. The Toolbox identifies five (5) steps in the Brownfields renewal process. The Toolbox provides a brief summary of each step, answers a series of Frequently Asked Questions (FAQs), and lists and summarizes available state and federal tools and incentives local governments may want to utilize in pursuing redevelopment of a Brownfields site in their community. A list of questions is presented at the end of Steps 1 through 3; based on the answers, the reader/user is directed to the appropriate next step for that project.

How to Use this Document

This Toolbox provides a framework for successful Brownfields project implementation. Familiarize yourself with this Toolbox prior to initiating a Brownfields redevelopment project and refer to it throughout the various stages of your project. The Toolbox is comprised of five Steps, where each Step corresponds to a step in the Brownfields renewal process. Keep in mind, the Brownfields renewal process can sometimes be an iterative process and you may have to revisit certain steps. The following is a guide to navigating the Toolbox for effective completion of your Brownfields project.

1. For a general overview of the Brownfields redevelopment process, review the narrative summary provided at the beginning of each section.
2. Next, be aware that each Brownfields project is different; treat this Toolbox as a guide that must be adapted to meet the needs of your specific project, not as a one-size-fits-all approach. For example, if you are working to address a specific property that already has a completed an Environmental Assessment, you will begin the process at Step 3.
3. Follow this approach until environmental issues are resolved or until you reach Step 5, Redevelopment of your Brownfields. This section provides information that can assist you in addressing the issues inherent in marketing and developing a formerly contaminated property (or one where contamination has been properly and safely addressed but has not been completely eliminated.)

The Five Step Brownfields Renewal Process:

The Toolbox breaks the Brownfields renewal process into five (5) steps:

Step 1: Site Identification and project planning

Step 2: How to determine if you have contamination on your site

Step 3: Cleaning up your site

Step 4: How your state's program can help when a site is contaminated

Step 5: The End of the Line – Redevelopment of your Brownfields!

The Toolbox summarizes some of the federal tools available nationwide. Each step also contains a section headed "State-Specific Tools and Information". In this section, your state's program refers to information on programs, incentives, guidance, funding and other state-specific tools available to local governments. In this section your state may also provide information on how a local government can best access the available federal tools and incentives; this can vary from state to state. Each state is different, so it is very important to review your state-specific information and work with your state program staff throughout the Brownfields redevelopment process.

Finally, the Toolbox contains a list of useful documents and a comprehensive glossary of Brownfields-related terms and acronyms. The referenced documents and glossary provide you with additional information you can use to better understand the issues and terminology often encountered during the Brownfields redevelopment process. Your state program is also an excellent resource.

Step 1: Site Identification and Project Planning

This section provides guidance on how to identify Brownfields properties in your community, how to develop a revitalization plan to address those properties, and how to initiate project planning.

Experience has shown that successful Brownfields redevelopment comes in many forms and that each community has its own unique opportunities and revitalization goals. Regardless of a community's size, history, and number of Brownfields properties, planning ahead is extremely important.



Whether your community's goal is to develop a comprehensive revitalization plan for multiple Brownfields properties, or if you plan to redevelop just one contaminated property, successful project planning must consider the resources available for environmental investigation and cleanup of the property(ies), and determine how the property(ies) will be redeveloped and/or marketed for redevelopment. Considering these issues early on can make a big difference in successfully meeting your community's Brownfields revitalization goals. The FAQs, recommended activities, and available tools below provide information to help you understand the process and guide your community through the site identification and project planning phase.

FAQs

What are Brownfields?

Brownfields are abandoned or underutilized properties, including but not limited to industrial and commercial facilities, where redevelopment or expansion may be complicated by possible environmental contamination (real or perceived). Brownfields are officially defined by the federal government in The Small Business Liability Relief and Brownfields Revitalization Act of January 11, 2002, ("Federal Brownfields Law") as any "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant." Specific examples of sites which could qualify as Brownfields include: abandoned gas stations, old factory and mill complexes, foundries, junkyards, mine-scarred lands, and other under-utilized or abandoned properties.

Why is Brownfields redevelopment important?

Brownfields properties are often abandoned, with owners no longer maintaining the property or paying taxes. Abandoned properties can quickly become eyesores, and may attract vandalism and illegal dumping, which degrade the environment, depress our communities, and potentially put our health at risk. Productively reusing Brownfields reduces urban sprawl, increases the tax base, cleans up the environment, encourages urban revitalization and creates jobs for the community and surrounding communities. Redeveloping Brownfields links economic vitality with environmental protection.

What would be the advantage of having a "Brownfields revitalization" plan for my community?

Establishing a community-led Brownfields revitalization plan aids in removing environmental hazards from communities, eliminates the need to develop pristine open space and farmland, revitalizes communities by creating jobs, and returns property to productive use and onto local tax rolls. A community-based approach has the added advantage that community members have a direct role in determining how their Brownfields can be cleaned up and redeveloped to best facilitate the community's future development plans.

Activities and Available Tools

If you have identified Brownfields properties in your community that you would like to do something about, you've taken the first step. So what are the next steps? This depends on what your community's plans or desires are for future development in your city, town or village. Some questions you should consider are:

- Does your community want to clean up Brownfields properties and market them to potential commercial, industrial or residential buyers or developers?
- Does your community want to retain some of these properties for its own use, perhaps for municipal or open-space purposes, or for affordable housing?
- Has your community been approached by potential buyers or developers who have been subsequently "turned off" because the property is a Brownfield?
- Does your community have (or want to develop) a comprehensive plan for revitalizing its Brownfields?

Brownfields Team

If the answer to any or all of the above questions is yes, your community may want to consider forming a "Brownfields team". A Brownfields team is typically a mix of public and private parties from your community who have an interest in fostering well-planned, successful Brownfields redevelopment. The team can be as large or small or as formal or informal as the community needs. It can be tailored to the size and complexity of one specific project, or it can guide an entire revitalization vision. It can be made up of elected officials, planners, attorneys, environmental professionals, economic development officials, members of environmental and citizen interest groups and the like. The team can bring valuable perspectives from each member's area of expertise to help develop a mission and determine long-term and short-term goals based on the community's revitalization needs and desires.

In addition to forming a Brownfields team, it can be quite helpful to contact other local communities, private entities or professionals with previous Brownfields experience.

State and federal agencies have programs for Brownfields assessment and cleanup. They may have lists of local government and private contacts that are well-versed in Brownfields issues and would be happy to share their knowledge. Visit U.S. EPA's Brownfields homepage at: <http://www.epa.gov/brownfields/>. Contact information for Arizona's Brownfields or Voluntary Remediation Program can be found on page 37 of this document.



Determining the Intended Use for Brownfields Property



The intended use of a property plays an important role in the Brownfields revitalization process. If contamination is identified, the nature and extent of the contamination will have to be assessed. How that contamination is cleaned up, however, may be affected by the property's intended future use. For example, if the redevelopment plan calls for the construction of a light industrial facility, it may be appropriate to apply industrial investigation and cleanup standards that are less stringent than those that would be applicable to property that is to be redeveloped for residential use. Therefore, it is important to consider potential redevelopment plans from the outset of any Brownfields project.

If the intended use is not known at the beginning of the project, the community representatives or Brownfields team should make every attempt to identify the general type of desired development, whether industrial, commercial, or residential or a mixed-use development. In the absence of that information, the most conservative cleanup assumptions would likely have to be made at every stage of the project. While this approach preserves the greatest number of options for development, this may significantly increase the time and expense of the project. These factors are discussed in greater detail in Step 3.

Financial Assistance for Community-Lead Brownfields Activities

Forming a Brownfields team and determining the best use of your community's Brownfields are important first steps but ones that do require resources. U.S. EPA offers Brownfields grants on a periodic basis (usually once a year, with grant application rounds normally beginning in the fall) to assist communities with various activities related to Brownfields revitalization. One of the grants U.S. EPA makes available to communities is the Brownfields Assessment Grant. This grant provides funding for property characterizations and assessments and activities to conduct planning and community involvement related to Brownfields sites. This grant can also provide funding for conducting Brownfields inventories (see section below). In addition to funding for assessments, grants are awarded for cleanup and establishing revolving loan funds.

More information about the Brownfields Assessment Grant can be found on U.S. EPA's Brownfields Web page at: www.epa.gov/brownfields/assessment_grants.htm.

Brownfields Inventories

Historical industrial or commercial property use often resulted in environmental contamination. If your community had an industrial past and now has abandoned or underutilized industrial or commercial properties, an inventory can help you identify the number and location of such properties. Then you can begin to consider what can be done for these properties to benefit the economic health and vibrancy of the community.

Communities are often in a good position to create Brownfields inventories. Local units of government have access to historical documents that can help determine which properties meet the definition of a Brownfields, and can conduct title searches to determine ownership. The local government and its Brownfields team will also be in a good position to know which of these Brownfields properties would provide the greatest redevelopment benefit to your community. This is a crucial initial step in prioritizing cleanup and redevelopment. Organizations that have local historical expertise such as senior citizen and scouting groups have helped communities successfully conduct Brownfields inventories after receiving training from the Brownfields team or other state or local experts. You may want to enlist the help of a local volunteer service organization to maximize your Brownfields inventory efforts.



Planning Resources

It is important to plan ahead as much as possible. There are many resources available to assist your community in the planning process. See Appendix A for list of planning resources.

For more information on tools and financial resources to assist you with project planning and site identification that are specific to Arizona, refer to page 25 of this document.

Determining Your Next Step

The following series of questions will help you determine the next step in the Brownfields redevelopment process:

- Has your community identified a property(ies) where redevelopment is complicated by real or perceived environmental contamination, and the nature and extent of that contamination is not known?
 - If "yes", Go to Step 2 "How to determine if you have contamination"
- Has your community identified a property(ies) where contamination exists and the nature and extent of that contamination has been documented?
 - Go to Step 3 "How to determine if you need to clean up your site"
- Has your community identified a property(ies) where contamination exists, documented the nature and extent of contamination, and analyzed the risks posed by that contamination?
 - Go to Step 4 "How your state's program can help when a site is contaminated"
- Has your community evaluated cleanup options for a Brownfields project and selected a remedial action?
 - Go to Step 5 "The End of the Line – Redevelopment of your Brownfields!"

Step 2: How to Determine if you have Contamination on Your Site

Once you have identified potential Brownfields that your community would like to redevelop, the next step is to determine whether there actually are any environmental conditions present that may affect future use and redevelopment. This will assist you in determining what liability the community may have and possibly the cost it might bear if it chooses to take ownership and begin a cleanup.

Making a determination of whether a property is contaminated or not is accomplished by conducting an environmental site assessment, which includes a review of historical records, an inspection of the site and, quite often, collecting and analyzing soil and groundwater samples.

FAQs:

What is an environmental site assessment?

Environmental site assessments are typically conducted in phases, and are used to determine whether a site is contaminated or not. A Phase I environmental assessment is a review of all the records and knowledge associated with the property's historical record to see if there is the potential for the presence of contamination. If the Phase I indicates there is a potential for contamination, then the assessment of the site proceeds to the next phase. A Phase II involves sampling of the site and will help determine: the extent of contamination; the types and probable sources of contamination; the level of risk to humans and the environment associated with the contamination and whether the contamination needs to be cleaned up.

Why should I do an environmental site assessment?

As with any large investment, you want to know what kind of additional costs you will incur before you finalize the purchase. In the case of a Brownfield site, you want to find out if the site is contaminated and, if so, how much it is likely to cost to clean it up before you buy it. An environmental site assessment can accomplish that task and, if it meets the requirements of the All Appropriate Inquiry rules (see the AAI FAQ below), limit your liability under the federal Superfund law. In addition, your state may also provide for a similar release of liability under state law.

Who performs the environmental site assessment?

Environmental site assessments are typically conducted by environmental consultants trained and experienced in the areas of environmental investigation and cleanup. Federal regulations require that AAI investigations be carried out by qualified environmental professionals who meet certain minimum requirements. Your state may have suggestions regarding when or if it is necessary to hire an environmental consultant.

For more information on hiring an environmental consultant, access the U.S. EPA Web site at: http://www.epa.gov/brownfields/aai/HiringEP_Addendum_factsheet.pdf.

Who pays for the assessment?

Assessment costs are typically paid by the prospective purchaser, although under certain circumstances U.S. EPA or the state may be able to conduct these assessments at no cost to the municipality under their Targeted Brownfield Assessment program. For more information about this program see Activities and Available Tools below.

Can I do an environmental site assessment before I own the property?

Yes, if you have permission and access rights from the owner of the property. Municipalities and developers often make access rights and permission to conduct an environmental assessment part of their pre-purchase agreement with a property owner.

What is meant by “all appropriate inquiry” (AAI)?

All Appropriate Inquiry, or AAI as it is commonly known, is an environmental site assessment that meets the requirements of U.S. EPA's All Appropriate Inquiry rule (40 CFR 312). Following the requirements of AAI in a pre-purchase environmental site assessment gives a prospective purchaser protection from CERCLA (aka Superfund) liability for those environmental issues that are identified by the AAI assessment.

Prospective property owners who were never involved in any practices that might have contaminated the property (aka innocent landowners) as well as owners of contiguous properties are eligible for protection from CERCLA, if AAI is conducted prior to purchasing a property. In addition, to maintain protection from CERCLA liability, property owners must comply with certain “continuing obligations” provided in the statute.

For more information on the AAI rule, access the U.S. EPA Web site at <http://www.epa.gov/brownfields/aai/index.htm>.

Does my state require cleanup of this property?

Assessment and cleanup of properties must be done in conformance with the requirements of both U.S. EPA and those of your own state. Please see Section 4 of this Toolbox, and check with your state program.

Might an environmental assessment performed several years ago meet the new AAI requirements?

No. Information from older Phase I reports may be used as a resource, but the 2002 Federal Brownfields Act requires that a Phase I assessment used to meet the requirements of AAI must be completed within a year prior to taking ownership of the property. This is to ensure that the current environmental status of the property is known at the time the property is transferred. In addition, certain aspects of the AAI assessment must be completed within 180 days prior to the property transfer (i.e., the on-site investigation, the records search, the interviews, and the search for environmental cleanup liens). This protects the buyer from inadvertently accepting liability for contamination that may have occurred between the time the initial assessment was conducted and when the property actually transfers.

Activities and Available Tools

Phase I Environmental Assessments

A Phase I environmental site assessment requires that an appropriately qualified environmental professional review existing records concerning the site, research the operational history of the site, and conduct a site visit and interviews to determine if the potential exists for contamination at the site.

Phase I site assessments are used to identify existing or past signs of potential contamination at a property.

Contamination can consist of hazardous substances and petroleum products as well as asbestos, lead-based paints, mold and radon.

If the Phase I assessment does not indicate a significant potential for environmental risk due to contamination at the site, then further investigation or cleanup may not be needed. You should consult your state program for verification.



Phase II Assessments: Sampling and Risk Assessment

A Phase II environmental site assessment is a detailed evaluation of environmental conditions at a property. This evaluation relies on the collection and analysis of soil, sediment, soil vapor and groundwater samples, and other measurements taken at the site to confirm and quantify the presence of environmental contamination at the property. Before and after conducting the sampling activity, it may be appropriate to involve your state program to comment on the relevance and adequacy of the effort.

If contamination is confirmed and the levels of contaminants are known, an assessment of risks to human health and the environment may be conducted to determine how people and/or the environment could be affected. Once a risk assessment has been conducted or a comparison is made to state or federal cleanup standards, a decision can be made regarding whether or not the property poses an unacceptable environmental or health risk. If unacceptable risk is determined to exist at the site, a plan can be developed to clean up the property and reduce risks to humans and the environment.

The Phase II site assessment is designed to evaluate the degree of contamination and health or environmental risk posed by exposure to such contamination. It may not provide sufficient information to estimate the exact quantity of wastes to be addressed or the costs of cleanup. Additional work may be needed which is discussed in Step 3 of this document, "Cleaning up your Site".

U.S. EPA Assessment Grants

Grants of up to \$200,000 are available to municipalities and quasi-governmental entities that bear no responsibility for causing the contamination at a site. These competitive grants are available on an annual basis for planning and assessment of Brownfields sites contaminated with petroleum or hazardous substances.

See www.epa.gov/brownfields/assessment_grants.htm for more information.

Targeted Brownfields Assessments

U.S. EPA regional offices or your state program may be able to assess Brownfields sites under a program called Targeted Brownfields Assessment. At the request of a municipality or non-profit the U.S. EPA can perform an assessment and assist in the planning process for redevelopment of Brownfields sites. These assessments are done at no cost to the requesting community at sites where there is a clear public benefit, and the community did not cause the contamination. See http://www.epa.gov/brownfields/grant_info/tba.htm for more information or check with your state program.

For more information on tools and financial resources to assist you with project planning and site identification that are specific to your state, refer to Appendix A of this document.

Determining Your Next Step

The following questions were developed to help determine your next step in the Brownfields redevelopment process:

- Did my environmental site assessment reveal any potential contamination or other recognized environmental conditions on this property?
 - If no, go to Step 5, “The End of the Line – Redevelopment of your Brownfields!”.
 - If yes, and you want to clean up the property before marketing it for redevelopment, go to Step 3, “Cleaning up your site”.
 - If yes, but you do not want to clean up the property prior to marketing it for redevelopment, go to Step 5, “The End of the Line – Redevelopment of your Brownfields!”.
- Does the contamination pose a risk to human health or the environment?
 - If yes, then cleanup will likely be necessary, so proceed to Step 3 “Cleaning up your site”.
 - If no, and it does not affect the future use of the property, then proceed to Step 5, “The End of the Line – Redevelopment of your Brownfields!”.
- Does the contamination require cleanup or other corrective measures in order to protect human health or the environment, or can the contamination be addressed through a deed notice or other similar mechanism?
 - Go to Step 3, “Cleaning up your site”.
- What financial or human resources are available to address this project?
 - Go to Step 4, “How your state’s program can help when a site is contaminated”.

Step 3: Cleaning Up Your Site

The results of your Phase II assessment may indicate that contamination on the property exceeds state and/or federal screening or cleanup standards. Cleanup may be necessary to either prevent exposure by future users of the site to contamination or to stop a release of contamination into the environment. This Step is intended to provide general information on cleanup and its role in the Brownfields redevelopment process.

FAQs:

How do you know when a property needs to be cleaned up?

If, after conducting environmental assessments as described in Step 2, your sampling results exceed your state's cleanup levels or the risk assessment indicates that a potential risk to human health or the environment exists, it is likely that some form of cleanup is necessary.

Who do I need to consult to get help with cleaning up the site?

If you haven't done so already, you should hire an environmental consultant to work with you to develop and implement a plan to address the contamination at your site. Additionally, it may be necessary to hire an environmental attorney who is familiar with state and federal laws to assist you in dealing with the legal issues relative to the cleanup process. Finally, you should also contact your state environmental agency and ensure that any cleanup work you are planning to conduct will fulfill state requirements. See Step 4 for more information regarding your state's cleanup requirements.

How much will the cleanup cost?

The more information you have about the types and amount of contamination on your property, the easier it will be to estimate the cost to clean it up. In addition, determining future intended use for the property may allow you to tailor the cleanup and reduce the costs.

Incorporating cleanup activities into the general construction process or using innovative architectural designs can help reduce costs. For example, it may be possible to reduce the amount of contaminated soil needing to be excavated and disposed of by constructing buildings over less-contaminated areas, and/or paving areas of higher contamination to reduce exposure.

In addition, cost-effective remediation techniques designed to address contamination under buildings and in groundwater have been developed, and may be appropriate for your project. You may want to contact your state's environmental agency as they may have web sites and contact information that can provide you with more information about these remediation techniques.

What types of cleanup might be necessary at Brownfields sites?

Soil, sediment, groundwater and indoor air may need to be cleaned up at a contaminated site. Techniques have been developed to address contamination in each of these media. The type of cleanup selected is based on situation-specific considerations such as type of contamination, amount of contamination, depth to groundwater, and extent of risk to human health or the environment. Additional cleanup might be necessary during the demolition phase to address issues such as asbestos or lead-based paint.

What are institutional controls?

In cases where the cleanup does not remove or address all of the contamination at the property to the most stringent of standards (e.g., for residential or unrestricted use), Institutional Controls (ICs) may be required as part of the cleanup. ICs are legally enforceable restrictions, conditions, or controls that limit or prevent the use of the property, ground water, or surface water so that future exposure to contamination can be prevented or minimized.

ICs are intended to reside in the property chain of title records and to be discovered when property ownership changes. By making future owners and others aware of the location of contamination, a less stringent cleanup option may be implemented that is just as protective of humans and the environment as a more “complete” cleanup. Some examples of ICs include easements, activity and use limitations, restrictive covenants, well drilling prohibitions, deed restrictions, zoning restrictions, and special building permit requirements.

Each state’s real estate laws vary. In some states, the owner is the only person who can place such instruments in the chain of title. Check your state’s laws for specifics for your situation.

Activities and Available Tools

Types of Cleanups for Brownfields Sites

The type of cleanup required at a Brownfields site depends on a number of factors. These factors include location, type and amount of contaminant(s) present, how widespread and deep the contamination is and the intended future use.



The most common types of cleanups include removal or treatment of contaminated soil, capping and/or covering the contaminated area, and cleaning up groundwater. However, additional methods for mitigating risks at Brownfields sites include the use of institutional controls (see IC FAQ above) and engineering controls.

U.S. EPA has published a compendium on cleanup options that can be found at: <http://www.epa.gov/tio/download/misc/roadmap3edition.pdf>.

Engineering controls are constructed parts of a cleanup that act to cover (i.e., “cap”) or limit exposure to residual contamination at the property. Engineering controls include soil, asphalt or concrete cover systems over residual contamination and the use of fences. In some cases, contamination at depth can be “capped” by a newly constructed building or roadway.

Because the amount of cleanup needed can be highly dependent on future use, it is very important to thoroughly assess the property in the early planning stages of your project. The assessment information may allow you to design appropriate but cost effective cleanup options that can be incorporated into the development process.

Importance of determining future use of the property

Brownfields redevelopment is essentially a real estate transaction, and any real estate transaction is affected by location, location, location. A key question that must be answered for every Brownfields redevelopment project is “Will a return on my investment be realized”? To determine that, you need to know what the cost of cleanup will be.

What constitutes a successful and protective cleanup has evolved over the past several decades from an expensive “remove it all” approach, regardless of how low the actual



risks to humans and the environment might be, to a more measured, risk-based approach where low levels of contamination can be left on site if properly controlled. The risk-based approach recognizes that any cleanup must be protective of human health and the environment, but cleanup need only go as far as necessary to make the site safe for its intended use. For example, cleaning up a site to single family residential use

exposure levels is unnecessary if the property is to be used as a warehouse or convenience store. The reverse is also true. You wouldn't want a less stringent cleanup that is appropriate for an industrial use to occur where homes were to be built.

So, the intended future use of a site can determine the extent of cleanup that will be required. It is just as true that the extent of cleanup can determine the future use of a site. Sometimes the intended use of a site is known from the beginning and the cleanup is tailored for that use. In other cases, available funding limits the extent of cleanup, which may then dictate more limited options for future use. Knowing the intended future use can significantly affect the cleanup both in scope and cost.

State Acknowledgement of Completion of Cleanup

One of the benefits of conducting a cleanup under a state's program is that in return for completing cleanup to the satisfaction of the state or its designee (some states rely on environmental professionals for oversight and approval of cleanup work), you receive a release from liability or state approval when you complete the cleanup. Many states

provide written acknowledgement of this in the form of a No Further Action letter, Certificate of Completion or Covenant Not to Sue. These may be used to demonstrate to prospective purchasers, future users of the site, lenders, the local community, and other interested parties that contamination issues have been resolved and the site is safe for reuse. For more information about whether or how your state provides acknowledgement of completion of a Brownfields cleanup, refer to Step 4.

Loans and Grants available for Funding Cleanup

One of the biggest barriers to cleanup of Brownfields properties is financial resources. U.S. EPA Brownfields cleanup grants are an excellent source of funding for cleanup of Brownfields properties (see Step 1, Site Identification and Project Planning). Since the grants are highly competitive and applications are only accepted once a year, your project should have some flexibility built in for these constraints.

More information about the Brownfields Cleanup Grant can be found on U.S. EPA's Brownfields Web page at: http://www.epa.gov/brownfields/cleanup_grants.htm. Also see Appendix A for a list of other federal or regional loan and grant programs.

Another potential source of cleanup funding may be grants or loans from your state environmental or economic development agencies. Many states have Brownfields revolving loan funds. These revolving loan funds generally allow parties to borrow money to fund assessment and cleanup of Brownfields at low interest rates. You should contact your state agency to see if such funding is available.

For more information on tools and financial resources to assist you with project planning and site identification that are specific to your state, refer to Appendix A of this document.

Determining Your Next Step

- Have you completed cleanup prior to redevelopment?
 - Go to Step 5 “The End of the Line – Redevelopment of your Brownfields!” for assistance in marketing or developing your Brownfields site.
- Have you identified but not addressed all environmental concerns at the property, and do not intend to clean up the property prior to selling it?
 - Go to Step 5 “The End of the Line – Redevelopment of your Brownfields!” for assistance in marketing your Brownfields site.
- Do your cleanup activities require institutional controls and have they been appropriately filed and recorded according to applicable statute and regulation?
 - Go to Step 4 which provides contacts and information specific to the requirements of your state.
- If you know who the purchaser of the property will be, have you conveyed the content and responsibilities of the institutional controls to them?
 - Go to Step 5 “The End of the Line – Redevelopment of your Brownfields!” for assistance in marketing your Brownfields site.
- If your site requires long-term maintenance, have you made plans to fund and carry out those obligations or made arrangements for others to do it on your behalf?
 - Go to Step 4 which provides contacts and information specific to the requirements of your state.

Step 4: How your State's Program can help when a site is Contaminated

Assessment and cleanup of properties must be done in conformance with the requirements of both U.S. EPA and those of your own state. This section explains how to locate information about your state's cleanup program.

Most states have their own cleanup programs, separate and distinct from U.S. EPA's Superfund cleanup program. Eligibility, technical requirements, timeframe, fee structure, liability relief, and level of oversight vary state-by-state.



There are many advantages to conducting a cleanup under a state program. Under many state programs, site closeout letters (using a variety of titles) are issued. These can be used to demonstrate to prospective purchasers and future users of the site that contamination issues have been resolved, and that neither you nor they will be held liable for past contamination at the site. Cleanups conducted under state programs may provide the liability relief needed to access financing. And in addition to receiving protection under applicable state laws, successful cleanup under your state's cleanup program may also provide relief from U.S. EPA requirements for additional response actions at the property.

Most states have voluntary cleanup programs, which encourage property owners to conduct cleanups on their properties that might not otherwise take place. In those states, under certain specific circumstances, the state's laws do not mandate cleanup. Some state cleanup programs are not considered voluntary, because the property owner is required by law to clean up the property.

Basic information about each state's cleanup program can be found in U.S. EPA's February 2005 publication, "State Brownfields and Voluntary Response Programs: An Update from the States" (EPA-560-R-05-001). For additional information specific to Arizona, please see page 25.

Step 5: The End of the Line – Redevelopment of Your Brownfields

By working through Steps 1 through 4, you have quantified the environmental concerns at your Brownfields site. You have either addressed those environmental concerns through cleanup or institutional controls, or you have documented them for a future developer to address as part of development. Assessment is complete; actions were taken, or plans were developed, for resolving unacceptable environmental risks. The property is ready for redevelopment.

Now that you have resolved the initial challenges associated with the environmental aspects of the site, you can turn your attention to the final steps. You may be marketing your now-clean property, trying to ensure a good return on your investment, and doing

your best to attract the right developer . You will be facing the challenges inherent in any development project, such as providing appropriate infrastructure, but you also need to convince future buyers and occupants that the site is safe for their use.

You may be redeveloping the property yourself instead of seeking to sell to a developer . In this case, return on investment is not necessarily a primary driver, but you will still need to address infrastructure. You will also need to convince future occupants or users that the site is safe for their reuse.

On the other hand, you may have decided not to clean up the property yourself, but instead to market it for simultaneous cleanup and redevelopment. This is most likely to be successful when contamination at the property has been quantified and final cleanup costs can be determined with certainty.

This section:

- Provides information on federal and state financial and technical resources that may be available to help with planning and financing redevelopment
- Provides advice on managing the issues inherent in developing a property with contamination
- Details the activities involved in marketing a Brownfields site.

Depending on your plans for redeveloping the property , a variety of federal and regional resources may be available to you. With answers in mind to the questions below , consider the FAQs listed below and the resources described in Appendix A.

- Do you plan to redevelop the site, or to sell/market the site once clean up has been completed, and allow the buyer to redevelop the site?
- Will a public or private entity redevelop the site?
- Is the intended use a public or private use?
- Did you start this entire process with a planned, known reuse for the site, or are you still developing your reuse plans?
- Is your site in the heart of a bustling urban center or in a rural setting?
- What infrastructure exists at the site?
- Will the reuse be residential, commercial, industrial or open space?

Now select the tools that appear most applicable, and work with your local and state economic development specialists to move from planning into redevelopment.



FAQs:

If my property has a deed restriction/institutional control/environmental covenant incorporated into the environmental risk management plan, how will this impact the marketing and redevelopment of the site?

If your site is safe for reuse but has a deed restriction, developers and occupants will need to be made aware that in certain areas some uses are either prohibited (i.e., growing vegetables is not permitted) or require special consideration (i.e. excavation below 6 feet requires a soil management plan). Developers will need this information to formulate the best plan for reuse of the property. Potential owners or occupants need this information so that they can safely use the property and so they can fulfill any ongoing obligations associated with the deed restriction. These obligations are site and state-specific and may include periodic review and reporting of site conditions, operation of a remediation system, or payment of an annual fee. You should check with your state cleanup program to determine whether any such ongoing obligations apply to your site.

What information generated during assessment and cleanup work will developers, lenders, and potential occupants request during the development stage, and how should the information be presented?

At a minimum, most developers, lenders and potential occupants will want to be assured that the site has been appropriately cleaned up and closed out of the state and/or federal cleanup programs. They may also be interested in reviewing the closeout report and having a copy of the site closure letter received from the state or its designees. Other documents of interest may include the AAI report, assessment reports, and documentation of remediation activities. Most state environmental agencies retain copies of these documents in their files for the public to review. You may also want to set up an information repository in a local library to facilitate review.

What role, if any, will local, state or federal environmental staff have during the redevelopment phase?

You should ask this question as you access specific resources to assist you with redevelopment. The answer is highly dependent on site specifics, state law, and the type of federal or local resources that have been accessed to assist in redevelopment. You should also check with your state's cleanup program to determine whether redevelopment of the property may trigger any further state involvement.

How should I market this property?

There are many tools available that can allow you to market your cleaned up Brownfields property to the right audience at little or no cost. One example of an effective marketing tool is a State or local Brownfields inventory.

Many states have developed extensive, often computerized, inventories of Brownfields properties. Some, such as Ohio's Web based inventory (see http://www.epa.state.oh.us/derr/SABR/brown_dtb/browndtb.aspx), have been created specifically to help market the property to prospective developers.

Adding your property to these inventories can normally be done at no cost to you and quickly puts your property "out on the market". Check with your state regarding existing state or local Brownfields inventories.

Activities and Available Tools

Tip for Success No. 1 – Establish and maintain a well-rounded Brownfields Team

If your Brownfield Team does not already include local, state or federal economic development agency staff, look to the resources described in Appendix A and contact the economic development agencies best suited to help with your project.

Tip for Success No. 2 – Establish clear goals

Work with your Brownfields Team to develop appropriate locally supported redevelopment goals for your site.

Tip for Success No. 3 – Identify available tool

Use your redevelopment goals/plan to identify and utilize appropriate tools throughout redevelopment.

Tip for Success No. 4 – Work to make your site(s) "shovel ready"

Based on the redevelopment goals for the site, in partnership with the economic development staff, identify and utilize the tools that will make your site 'shovel-ready' for development. A shovel-ready site is one where as many regulatory hoops as possible have been cleared in advance of redevelopment. This is a critical step if you plan to market the property for sale prior to redevelopment because you will clear regulatory hurdles for the purchasing developer.

Tip for Success No. 5 – Market your site

Market your redevelopment project. Local and state economic development staff can be particularly well-versed in strategies and available avenues for marketing. Coordinating with these representatives will help assure success.



APPENDIX A

Brownfields Resources

Please note that the resources referenced below are of ten implemented at the regional, state and local levels, so it is important to include regional, state and local economic development specialists in your Brownfields Team.

U. S. Environmental Protection Agency Brownfields Program (U.S. EPA)

<http://www.epa.gov/brownfields/>

U.S. EPA provides grants to fund assessments and cleanups of Brownfield sites. Grants are also made to capitalize revolving loan funds to clean up Brownfield sites or fund job training programs.

THINK ABOUT.....using assessment grants to identify and prioritize Brownfield sites for redevelopment or quantifying the degree of cleanup needed to get the site “business ready”. Cleanup grants often need to be pooled with other cleanup funds unless the cleanup is minor. Non-profits such as urban renewal authorities are eligible recipients of cleanup grants.

National Association of Development Organizations (NADO)

<http://www.nado.org>

Since 2001, NADO is dedicated to assisting regional development organizations across the country. Through their Research Foundation they have sought to raise awareness and examine issues related to Brownfields revitalization and redevelopment in small metropolitan and rural America. They have released a series of documents specifically addressing reclaiming Brownfields properties in rural America all of which are available on their Website. Their resource guide is highly recommended reading for Brownfields stakeholders and can be found at: <http://www.epa.gov/region4/brownfieldstoolkit/brownfields/informational.pdf>.

THINK ABOUT...using NADO to identify potential resources specifically targeted to smaller municipalities and rural communities.

U.S. Department of Housing and Urban Development (HUD)

<http://www.hud.gov/offices/cpd/economicdevelopment/programs/rc/resource/brwnflds.cfm>

Provides block grants and competitive awards for revitalizing entitlement communities (targeted to state and local governments), offers federally-guaranteed loans for large economic development and revitalization projects, typically in entitlement communities (targeted to state and local governments), provides priority status for certain federal programs and grants for HUD-designated Empowerment Zone or Enterprise Communities (targeted to 80 local governments with low-income or distressed areas), and provides options for meeting safe and affordable housing needs in developed areas.

The six Brownfield-applicable HUD programs listed below provide resources for the renewal of economically distressed areas, including Brownfields sites.

- Community Development Block Grant Program
- Section 108 Loan Guarantee Program
- Brownfield Economic Development Initiative (BEDI)
- HOME Investment Partnership Program
- Empowerment Zones and Enterprise Communities Initiative
- Lead-Based Paint Hazard Control Grant Program

Appalachian Regional Commission (ARC)

<http://www.arc.gov/funding/ARCGrantsandContracts.asp>

ARC provides grants for roads and highways (targeted to state and local governments in the 13 Appalachian states), and offers planning and technical assistance to attract private investment to distressed areas to support new uses (targeted to local governments and development districts/non-profit entities in some cases).

Contact Eric Stockton
Appalachian Regional Commission
1666 Connecticut Avenue
Washington, DC 20009-1068
(202) 884-7752
email: estockton@arc.gov

THINK ABOUT....tapping ARC funding to meet site access road and similar infrastructure support needs of Brownfield projects, including mine scarred lands...or helping cover planning costs at sites being reused.

U.S. Department of Agriculture (USDA)

Forest Service: www.fs.fed.us

The Forest Service provides technical assistance for Brownfields projects in selected areas (targeted to EPA grantee, local governments, federal Empowerment Communities and Enterprise Zones) and offers technical and financial assistance for sustainable redevelopment and reuse projects. These are targeted to state and local governments and community-based groups in Atlanta, Seattle, New York, Chicago, San Francisco, Los Angeles, Denver, Las Vegas, East St. Louis, South Florida (four county area), Philadelphia, Boston, and Buffalo.

Rural Development Agency (RDA)

www.rurdev.usda.gov

USDA provides grant, loan, and loan guarantee assistance for a variety of business, commercial, and industrial projects in small towns and rural areas, supports the installation and improvement of critical infrastructure needed to support economic development, and helps finance the construction of key public facilities - sewer systems, firehouses, etc - that can support Brownfields revitalization efforts.

THINK ABOUT...using USDA/RDA resources to meet various Brownfields needs within the context of small town or rural needs --real estate acquisition, cleanup, demolition, working capital, water and sewer system improvements, and supportive community facilities.

U.S. Department of Commerce Economic Development Administration

<http://www.eda.gov/ffo.htm>

EDA funds infrastructure enhancements in designated redevelopment areas or economic development centers that serve industry and commerce, provides planning grants, offers revolving loan funds and loan guarantees to stimulate private investments.

THINK ABOUT...using EDA to address cleanup and site preparation needs at reviving industrial areas...street, utility, port, and other infrastructure needs at Brownfields project sites...site revitalization planning...site marketing.

Small Business Administration (SBA)

<http://www.sba.gov>

SBA provides information and other non-financial technical assistance for redevelopment efforts, offers loan guarantees to support small businesses, and assists in developing management and marketing skills.

THINK ABOUT...using loan guarantees to attract capital to small businesses once sites are clean...using CDCs to help underwrite and finance building expansions or renovations...using informational resources available to help with loan documentation and packaging.

U.S. Department of the Interior National Park Service (DOI)

http://www.nps.gov/rtca/whatwedo/recent_innovations/wwd_ri_groundwork.html

DOI provides technical assistance for planning, assessment, and conservation in urban areas, assists in acquisition of surplus federal lands, and offers technical assistance for community revitalization.

THINK ABOUT...enhancing Brownfields projects with parks and open space amenities.

U.S. Department of Labor (DOL)

<http://www.doleta.gov>

DOL offers technical assistance linked to job training and workforce development in Brownfields Showcase Communities.

THINK ABOUT...using training and workforce development services as a cash flow offset incentive to companies locating at Brownfields sites

U.S. Department of Transportation Federal Transit Administration (DOT)

http://www.fta.dot.gov/funding/grants_financing_263.html

DOT provides grants for transit capital and maintenance projects, offers discretionary capital grants for new fixed guideway transit lines, bus-related facilities, and new buses and rail vehicles, funds transportation and land-use planning, and promotes delivery of safe and effective public and private transportation in non-urban areas.

THINK ABOUT...enhancing site marketability with transit access...planning for and cleaning up sites used for transportation purposes...identifying Brownfields sites for stations, lots, and other transit purposes.

U.S. Department of Transportation Federal Highway Administration (FHWA)

http://www.fhwa.dot.gov/environment/bf_disc.htm

Provides funds that can be used to support eligible roadway and transit enhancement projects related to Brownfields redevelopment – targeted to state and local governments and metropolitan planning organizations.

THINK ABOUT...using FHWA resources to cover some cleanup, planning and/or development costs, freeing up resources for other purposes...reconfiguring or modernizing roads or other transportation infrastructure to make them more complementary to site reuse opportunities... or to provide transportation related access or amenities that enhance site value

Federal Housing Finance Board (FHFB)

<http://www.fhfb.gov/Default.aspx?Page=44&Top=3>

FHFB funds community-oriented mortgage lending for targeted economic development funding. Funds are targeted towards a variety of site users and can be accessed through banks. FHFB subsidizes interest rates and loans to increase the supply of affordable housing and funds the purchase of taxable and tax-exempt bonds to support redevelopment.

THINK ABOUT...using FHFB to attract more lenders to specific Brownfields projects.

General Services Administration (GSA)

<http://www.gsa.gov/portal/content/105035>

GSA works with communities to determine how underused or surplus federal properties can support revitalization.

THINK ABOUT... incorporating former federal facilities into larger projects, to take advantage of site assessment resources.

National Oceanic and Atmospheric Administration (NOAA)

<http://coastalmanagement.noaa.gov/portfields.html>

NOAA provides technical and financial assistance for coastal resource protection and management. Funds workshops in Showcase Communities on Brownfields-related coastal management issues, coordinates a new "Port fields" initiative (initially targeted to port areas in New Bedford MA, Tampa FL, and Bellingham WA).

THINK ABOUT.. Planning for a revitalized waterfront and restoring coastal resources...linking port revitalization needs with broader economic development purposes...linking site design needs at waterfront Brownfield to end use planning.

U.S. Department of Defense Army Corps of Engineers

<http://www.usace.army.mil/Missions/Environmental/BrownfieldsUrbanWaters.aspx>

Executes projects emphasizing ecosystem restoration, inland and coastal navigation, and flood and storm damage reduction that may be Brownfields-related, provides technical support on a cost-reimbursable basis to federal agencies for Brownfields activities.

THINK ABOUT...requesting assistance from the Corps for project planning in waterfront situations...defining Corps-eligible projects like riverbank restoration can enhance Brownfields revitalization efforts.

U. S. Department of Defense (DOD)

Office of Economic Adjustment: <http://www.oea.gov/>

This office provides extensive information on redevelopment of closed military base properties – models developed may be useful to other types of Brownfields community stakeholders.

Office of Energy Efficiency and Renewable Energy/Center of Excellence for Sustainable Development

<http://www.smartcommunities.ncat.org/>

This DOE office serves as a resource center on sustainable development, including land use planning, transportation, municipal energy, green building, and sustainable businesses.

Office of Building Technology, State and Community Programs (BTS)

<http://www1.eere.energy.gov/buildings/>

BTS works with government, industry, and communities to integrate energy technologies and practices to make buildings more efficient and communities more livable. The resources available through BTS can help ensure that Brownfields cleanups are connected to energy efficiency and sustainable redevelopment.

Other Financial Mechanisms for Brownfields

Tax Increment Financing: A Brief Overview

One approach to financing the cleanup and redevelopment of Brownfields is the creation of a tax increment financing (TIF) district. TIF is a financing technique wherein bonds are issued to fund redevelopment and the bondholders are repaid through the new or incremental tax revenues generated by new construction/development. Usually, urban renewal authorities and downtown development authorities have the ability to create a TIF district.

For example, suppose a municipality creates a Tax-Increment-Financing (TIF) District to facilitate redevelopment of several adjacent properties, including aging and vacant industrial buildings and former rail yards. Once the properties within the TIF district are redeveloped, property values will increase, which results in increased tax revenues. Property tax revenues from the TIF district are split into two revenue streams:

1. The first stream (base) is equal to the "As-Is" property tax revenues without redevelopment and goes to the same city, county, school district, and other taxing entities (the base is allowed to increase with the market over time).
2. The second stream (increment) is the net increase in property taxes resulting solely from new development. The increment can be used to fund the redevelopment through Tax Increment Financing, which diverts the increment revenues to pay for annual debt service on construction bonds.

Energy and Mineral Severance Taxes

Severance taxes are excise taxes on natural resources "severed" from the earth. They are measured by the quantity or value of the resource removed or produced. In the majority of states, the taxes are applied to specific industries such as coal or iron mining and natural gas or oil production. They are usually payable by the severer or producer, although in a few states payment is made by the first purchaser. When production rates of minerals and energy are high these funds can grow to significant amounts.

As of 2005, 39 of the 50 states had some form of severance taxes. Naturally, use of these funds varies from state to state so check first to see how these funds can be applied in your state. Application and eligibility procedures also vary from state to state.





Arizona Department of Environmental Quality Brownfields Toolbox

The Arizona Brownfields Assistance Program is administered by the Arizona Department of Environmental Quality (ADEQ). The ADEQ Brownfields Assistance Program offers outreach to community officials and other stakeholders to explain the benefits of Brownfields redevelopment and identify available tools for funding and completing community Brownfields projects. The ADEQ Brownfields Assistance Program provides funding and technical assistance to assess and clean up property where reuse is complicated by known or perceived hazardous substances or pollutants.

The ADEQ Brownfields Assistance Program encourages and facilitates brownfields redevelopment through several tools. These include:

- **State Response Grant (SRG)**
- **Voluntary Remediation Program (VRP)**
- **Prospective Purchaser Agreement (PPA)**
- **Declaration of Environmental Use Restriction (DEUR)**
- **Underground Storage Tank (UST) Programs**

Answers to 10 common questions regarding the Brownfields Assistance Program are provided below for each of these tools.

1. What are the benefits of Arizona's program?

In general, Brownfields redevelopment benefits the community by reducing or eliminating environmental hazards, creating new business opportunities, increasing the tax base and restoring blighted areas to productive use. Brownfield redevelopment may be less expensive than developing previously undeveloped land, because roads and infrastructure are already in place. Further, Brownfields may be located near potential markets and labor, thus reducing the financial and social costs associated with transportation of workers and products. Specific benefits associated with the ADEQ Brownfields Assistance Program tools are described below.

State Response Grant (SRG)

Through the SRG, the U.S. Environmental Protection Agency provides funding to the ADEQ for Brownfields assessment activities, including Brownfields remediation projects. SRG funding is currently being targeted to the rural areas of Arizona. ADEQ can provide SRG funding to eligible applicants to assist with the economic development and revitalization of eligible sites. The funding can be used for environmental assessments or cleanup.

Voluntary Remediation Program (VRP)

The VRP is a mechanism for site owners or operators to voluntarily address contamination with ADEQ concurrence. The VRP offers a single point of contact between the participant and all ADEQ programs, and a closure document upon completion of a remediation to the appropriate standards. The VRP provides flexibility for participants to set their own remediation schedule.

In Arizona, Brownfields remediation projects are overseen by the VRP. By overseeing the process, and/or reviewing remediation documentation, the VRP ensures that the voluntary cleanup achieves a satisfactory level of human health and environmental protection.



Prospective Purchaser Agreement (PPA)

The PPA is a tool to avoid potential liability through a written agreement with ADEQ. Pursuant to A.R.S. §49-285.01, ADEQ may enter into a PPA, which provides a covenant not to sue for any potential Water Quality Assurance Revolving Fund (WQARF) and State Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) liability for existing contamination, if certain statutory conditions are met. In addition, CERCLA contribution protection is available if approved by Federal Court.



Declaration of Environmental Use Restriction (DEUR)

The DEUR is a restrictive covenant that documents institutional and engineering controls that may be used to allow closure of a site where contamination is still present. Use of this tool often allows properties to be safely closed in a shorter time frame, and at less expense than a full scale cleanup, allowing the property to be more quickly redeveloped, sold or otherwise put to productive use earlier.



UST Programs

The State Lead Program (SLP) conducts corrective actions at sites where the owner is either unknown (orphaned sites), unwilling, or technically or financially unable to perform the necessary work. These services may be free or largely subsidized by the ADEQ SLP. Site management under this program facilitates timely characterization and remediation activities, thereby allowing for the redevelopment of these properties.

2. Who is eligible to enter Arizona's program?

The ADEQ Brownfields Assistance Program brings together several tools. Each tool has different eligibility requirements. These are described below.

State Response Grant (SRG)

The SRG is available to sites in rural areas of Arizona that meet the following criteria:

- The site's redevelopment potential is complicated by known or perceived contamination; and
- The site has redevelopment potential;
- The applicant is not found liable for any existing contamination at the site;
- The site is an underutilized commercial or industrial site;
- The site is mine-scarred land or it is contaminated with:
 - a) a hazardous substance as defined by CERCLA;
 - b) a controlled substance; or
 - c) petroleum or petroleum products.

More detailed eligibility requirements can be found on the EPA Web page at: www.epa.gov/brownfields

Voluntary Remediation Program (VRP)

Most sites are eligible for the VRP. A site is not eligible if any of the following apply:

- The site is located within a Water Quality Assurance Revolving Fund (WQARF, or State Superfund) Registry site boundary and the applicant proposes to address the same contaminants of concern being addressed under WQARF;
- The remedial action is required pursuant to an existing written agreement (i.e. judicial judgment, decree, or administrative order) between the applicant and ADEQ; or
- The site is a RCRA permitted or interim status facility.

Prospective Purchaser Agreement (PPA)

In order to be eligible for a PPA, the following conditions must be met:

- the property is within a WQARF registry site or ADEQ has sufficient information to determine the extent of the contamination;
- the purchaser did not cause or contribute to the contamination and is not affiliated with any person who may be responsible for the contamination;
- the purchaser's use or development of the property will not exacerbate the contamination or interfere with ongoing remedial actions and
- the purchaser provides a substantial public benefit, which must be more than the mere continuation of a business on the property.

Declaration of Environmental Use Restriction (DEUR)

A property owner is eligible to use a DEUR to obtain site closure provided that:

- Soil contamination at the property exceeds the applicable residential soil remediation levels, but does not exceed the non-residential soil remediation levels;
- Contamination issues are addressed through the appropriate ADEQ regulatory program; and,
- Owner meets the statutory requirements of Arizona Revised Statutes Title 49 Article 4.

State Lead Program (SLP)

To be eligible for the SLP, the following criteria must be met:

- ADEQ determines action is necessary to protect human health and the environment; and
- The owner is unknown, unwilling, or technically or financially unable to perform the necessary work





3. How quickly can a property be cleaned up in Arizona's program?

The time required to conduct an environmental assessment and/or clean up a Brownfields site depends on several variables, including:

- a) the thoroughness and accuracy of the data provided;
- b) the nature and extent of contamination;
- c) the length of time participants take to respond to ADEQ inquiries and comments; and
- d) which of the Brownfields Assistance Program tools the site owner uses. Additional considerations are provided for each of the Brownfields tools below.

State Response Grant

The funded activity must be completed before the grant period ends, typically two years after the award date.

Voluntary Remediation Program

A person may enter the VRP at any time during investigation and/or remediation. Entering the program after site work is done does not necessarily guarantee quicker site closure. If the VRP determines errors were made in the planning, sampling or remediation, these issues may need to be resolved before determining the site requires no further action. If groundwater contamination is present, remediation may sometimes take years.

Prospective Purchaser Agreement

An owner who is planning to use a PPA should allow ample time to negotiate the terms of the PPA with ADEQ. For a site that is not complex, it typically takes three months to negotiate, solicit public comment, and finalize a PPA. More complex sites may require more time.

Declaration of Environmental Use Restriction

The restrictions included in a DEUR must be approved by ADEQ before the DEUR is recorded. An owner who is planning to use a DEUR should allow ample time to negotiate these terms.

UST Programs

Typically, actions under the SLP can be initiated within a year. For the SLP, the order in which a site is actively managed is based on the level of risk posed by the site. Because groundwater contamination is often involved, site closure may take years.



4. Can enforcement actions be suspended while the participant remediates a site under Arizona's program?

State Response Grant

No.

Voluntary Remediation Program

The VRP is not intended to serve as an alternative to or refuge from applicable laws, regulatory requirements or enforcement actions. However, as part of the VRP application, an applicant can submit a list of actions that the applicant proposes to be suspended. The work plan approval will identify suspended regulatory actions, including the issuance or filing of any action to compel the work approved in the work plan, to the extent deemed appropriate by ADEQ.

Prospective Purchaser Agreement

No.

Declaration of Environmental Use Restriction

No.

UST Programs

No.



5. Is financial assistance available?

In addition to the financial assistance options for Brownfields described below, ADEQ Brownfields Program staff is available to help communities identify additional funding options.

State Response Grant

The SRG is a financial assistance tool that offers up to \$200,000 per site for environmental assessment activities. Funding amounts for cleanup grants available up to \$200,000 and is site specific.

Voluntary Remediation Program

The VRP is not a financial assistance program. However, all Brownfields remediation project sites are required to apply for, and be accepted into the VRP. Oversight by the VRP helps ensure the Brownfields remediation projects protect human health and the environment.

Prospective Purchaser Agreement

The PPA is not a financial assistance program.

Declaration of Environmental Use Restriction

The DEUR is not a financial assistance program.

UST Programs

Under the SLP, ADEQ pays all of the cleanup costs for sites where the property owner did not own or operate the USTs at the time of the release. Typically, parties that owned or operated the UST at the time a release occurred are responsible for ten percent of the total cleanup cost. Additionally, any cleanup cost in excess of the maximum \$1,000,000 coverage is the responsibility of the party who owned or operated the tank when the release occurred. The SLP will attempt to recover these costs, if a responsible party can be identified.



6. Can the participant withdraw from your state's program at any time?

Withdrawal from a grant or loan program administered by ADEQ is governed by the grant or loan agreement.

State Response Grant

Withdrawal is according to the grant conditions and agreement.

Voluntary Remediation Program

A participant can withdraw from the VRP by providing ADEQ a notice of withdrawal. However, if an applicant withdraws from the VRP, but is otherwise required to remediate under another Title 49 program, the VRP will refer the site to that program. Further, a participant who withdraws from the VRP is responsible for paying all accrued fees.

Prospective Purchaser Agreement

A participant can discontinue the PPA process at any point, but is responsible for paying all accrued fees.

Declaration of Environmental Use Restriction

A participant can discontinue the DEUR process at any point, but there is no provision in rule for refunding fees that have been paid.

UST Programs

Yes.



7. Does the participant need to conduct community involvement activities under Arizona's program?

ADEQ maintains a public repository listing sites remediated under programs administered by ADEQ. The Remediation and DEUR Tracking System (RDT) list is available to the public, and is searchable by place name, parcel number (book, map, parcel), county, city, zip code and type. Additional community involvement that may be required for the Brownfields Assistance Program depends upon the tools in which the site owner uses, as described below.

State Response Grant

Community involvement is required.

Voluntary Remediation Program

In the VRP, every applicant must submit a community involvement plan with their work plan. An essential requirement of participation is community involvement which provides the public with the opportunity to express opinions about the site cleanup. The participant must provide general notice of the work plan and the opportunity for comment. ADEQ may require additional public participation activities if warranted by the scope of the proposal work plan.

Prospective Purchaser Agreement

ADEQ must publicly notice a PP A through a newspaper of general circulation in the county in which the property is located. The publication costs are incurred by the prospective purchaser and are not included in the fee.

Declaration of Environmental Use Restriction

ADEQ maintains a repository listing sites remediated under programs administered by ADEQ. This is called the Remediation and DEUR Tracking System (RDT). The RDT list is available to the public, and is searchable by place name, parcel number (book, map, parcel), county, city, zip code and type.

UST Programs

No community involvement is required.



8. What do you charge for review and oversight of remediation under Arizona's program?

There is no fee for the services provided by the ADEQ Brownfields Program, including assistance identifying available funding mechanisms. There is also no fee for the State Response Grant or UST programs.

Voluntary Remediation Program

The VRP operates on a fee-for-service basis. The VRP charges a \$2,000 non-refundable application fee, which is credited toward ADEQ's review costs (\$110/hour). A \$4,000 deposit is required at the time of acceptance into the program, and an additional \$4,000 deposit is required each time the deposit account falls below \$1,000.

Prospective Purchaser Agreement

The PPA fee is \$2,500 for sites that are on the WQARF registry and \$3,600 for a non-WQARF site application (which includes National Priorities List (NPL) sites). Additional charges will apply for work beyond what is covered by the initial PPA charge at the rate of \$73 per hour. A non-refundable charge of \$2,000 is also required when a settlement is requested. Additional fees may apply depending upon each specific agreement.

Declaration of Environmental Use Restriction

Owners are required to pay a DEUR fee which will vary depending on the nature and complexity of the control used by the owner.

UST Programs

There is no fee for applying or participating in either the SLP. However, a portion of the cleanup costs may be recovered from responsible parties participating in the SLP.

9. Is there an application process?

Application processes for the Brownfields Assistance Program tools should begin with a discussion of your project with the Brownfields Program; submission of applications, as described below, ADEQ review of the application, and notification by ADEQ to the applicant of acceptance or denial is also part of the process. The Brownfields Program provides information and assistance about application requirements. Contacts and links where application materials may be obtained are provided below.

State Response Grant

To apply for a State Response Grant, please contact:

Andre Chiaradia, Brownfields Coordinator

Phone: (602) 771-2296 or toll-free in Arizona: (800) 234-5677 Ext. 771-2296

E-mail: rc6@azdeq.gov

Voluntary Remediation Program

Potential VRP participants can enter the program at one of two points: pre-investigation or post-investigation.

In the first case, a participant submits a Program Application and an investigation work plan. A site that has already been cleaned up may be eligible for the VRP. In this case, remediation activities must be documented, and cleanup levels must meet ADEQ's requirements. Potential participants must submit a program application, an investigation report, a remedial project plan, demonstration of successful remediation, documentation of public participation and all applicable fees.

In either case, the general steps for applying to the VRP are as follows:

- Obtain application forms (request an application be mailed to you by calling (602) 771-4177 or toll free at (800) 234-5677 Ext. 771-4177; applications are also available online at <http://www.azdeq.gov/enviro/waste/cleanup/download/agency.pdf>).
- Submit a complete application with fees to ADEQ.
- ADEQ will promptly review the application and approve, deny, or request additional information to determine the applicant's eligibility to participate in the program.
- An application shall be deemed complete unless the department, within 60 days of receipt, notifies the applicant that the application is incomplete or has been denied.

Prospective Purchaser Agreement

The decision to enter into a PPA is a decision solely within the ADEQ's discretion. An application must be received by ADEQ before the closing of the property transaction in order to be eligible for consideration of a PPA. To apply for a PPA:

- Download the PPA application at <http://www.azdeq.gov/enviro/waste/sps/download/ppa.pdf>, or obtain an application by calling the Legal Services Unit at (602) 771-4178, or toll-free in Arizona at (800) 234-5677 Ext. 771-4178.
- Prepare the application and submit it to ADEQ.
- Negotiate the terms of the PPA.

- ADEQ will prepare the PPA for signature.
- ADEQ will review the application and either approve, deny, or request additional information to determine the applicants' eligibility.

Declaration of Environmental Use Restriction

To prepare an appropriate DEUR, take the following steps:

- Contact ADEQ to discuss your site and negotiate the specifics of the restriction or control.
- Once the specifics of the restriction or control are agreed to, print of f the appropriate form and the related terms. Forms and terms can be downloaded from <http://www.azdeq.gov/environ/waste/cleanup/deur.html>.
- Submit a signed DEUR, with the applicable fee, to ADEQ.

UST Programs

For more information call:

Mike Latin

Phone: (602) 771-4308 or toll-free in Arizona: (800) 234-5677 Ext. 771-4308.

E-mail: mrl@azdeq.gov



10. Where can the reader learn more about your program?

Brownfields Assistance Program and State Response Grant

For more information please contact:

Andre Chiaradia, Brownfields Coordinator

Phone: (602) 771-2296 or toll-free in Arizona: (800) 234-5677 Ext. 771-2296

E-mail: rc6@azdeq.gov

or visit the ADEQ Web site: www.azdeq.gov/environ/waste/cleanup/brownfields.html

Voluntary Remediation Program

For more information on the ADEQ Voluntary Remediation Program, please contact:

Julie Hoskin, VRP Manager

Phone: (602) 771-4866 or toll-free in Arizona: (800) 234-5677 Ext.: 771-4866

Fax: (602) 771-2302

E-mail: jh13@azdeq.gov

or visit the ADEQ Web site: www.azdeq.gov/environ/waste/cleanup/vol.html

Prospective Purchaser Agreement

If you are considering applying for a Prospective Purchaser Agreement, please contact ADEQ for assistance:

Ana Vargas, Legal Services Unit Manager

Phone: (602) 771-4178 or toll-free in Arizona: (800) 234-5677 Ext. 771-4178

E-mail: aiv@azdeq.gov

or visit the ADEQ Web site: www.azdeq.gov/environ/waste/sps/liability.html

Declaration of Environmental Use Restriction

If you are considering applying for a Declaration of Environmental Use Restriction, please contact ADEQ for assistance:

John Patricki, DEUR Coordinator

Phone: (602) 771-4397 or toll-free in Arizona: (800) 234-5677 Ext. 771-4397

E-mail: jp10@azdeq.gov

or visit the ADEQ Web site: www.azdeq.gov/environ/waste/cleanup/deur.html

UST Programs

For more information on the ADEQ State Lead Program, please contact:

Mike Latin, State Lead

Phone: (602) 771-4308 or toll-free in Arizona: (800) 234-5677 Ext. 771-4308

E-mail: mrl@azdeq.gov

or visit the ADEQ Web site: <http://www.azdeq.gov/environ/waste/ust/index.html>