Central Phoenix
7th Avenue and Bethany Home Road
7th Street and Missouri Avenue
16th Street and Camelback
Central and Camelback

Water Quality Assurance Revolving Fund (WQARF) Sites

Community Involvement Plan

ADEQ Document No. EQR-20-21
Updated December 2020
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Disclaimer: All telephone numbers, email addresses, and contact names are subject to change after publication. Data in the community demographics section are based on the 2010 U.S. Census.
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Community Involvement Plan – Introduction

The Arizona Department of Environmental Quality (ADEQ) is committed to involving citizens in the cleanup of contaminated sites in Arizona as part of the Water Quality Assurance Revolving Fund (WQARF) program. Created under the Environmental Quality Act of 1986 to support hazardous substance cleanup efforts, WQARF receives funding from legislative appropriations, cost recovery from responsible parties, corporate income taxes, and special fees.

The WQARF program identifies sites that are in significant need of remediation. Sites added to the WQARF Registry receive primary consideration for the distribution of funds for investigation and cleanup efforts. WQARF sites receive an Eligibility and Evaluation (E&E) score based on several factors, such as the contaminants present, the location of the contaminants, and the number of people who may be affected by the contamination. The score helps determine relative risk at the site; however, scoring does not indicate a direct threat to human health or the environment.

Arizona Revised Statutes (A.R.S.) § 49-287.03(B) and § 49-289.03, as well as Arizona Administrative Code (A.A.C.) R18-16-404, specify that a Community Involvement Plan (CIP) be developed for each site before beginning the Remedial Investigation (RI). Because the 7th Avenue and Bethany Home Road, 7th Street and Missouri Avenue, 16th Street and Camelback, and Central and Camelback WQARF sites are located near each other, one CIP has been developed to encompass all four sites, collectively referred to as the Central Phoenix WQARF sites. The purpose of the CIP is to provide a process for two-way communication between ADEQ and the public, in order to keep the community informed regarding the progress of the site investigation and remediation. The CIP will accomplish this goal through the implementation of the following steps:

1. Ensure timely public access to project information;
2. Identify a Community Involvement Area (CIA) and provide opportunities for community members and stakeholders to participate in the decision-making process associated with the environmental investigation and remediation of the site;
3. Establish a Community Advisory Board (CAB);
4. Designate an ADEQ spokesperson; and
5. Develop a plan for distributing site information to residents within the CIA.

This CIP describes how ADEQ will implement these steps for these WQARF sites. ADEQ updates this plan yearly, or as needed based on site developments, environmental and public health impacts, CAB input, public comments, and community concerns.
A. WQARF Process

The goal of the WQARF process is to clean up sites with groundwater and/or soil contamination to protect human health and the environment. The WQARF process uses a step-by-step approach to thoroughly investigate contaminated sites and determine the best remedy for achieving site cleanup. The length of these processes and methods of cleanup vary for each WQARF site.

For sites with minimal risk to human health, cleanup may include restricting land and/or water use and allowing the contamination to dissipate naturally. For this method, ongoing groundwater or soil monitoring ensures that the contamination continues to dissipate. For contaminated sites that may pose a risk to human health, the cleanup method may involve restricting land and water use; actively treating or filtering the groundwater to remove contamination; digging up any contaminated soil and removing from the area; bioremediation or other in-situ methods; or a combination of these actions.

The following flow chart depicts each phase of the WQARF process. The flow chart is color-coded and corresponds to the Community Involvement Action Summary table in Chapter 4. For detailed definitions of each WQARF phase, refer to the glossary.
WQARF PHASES

Preliminary Investigation (PI) → No Further Investigation or Action (NFIA) or Monitoring Only

WQARF Registry Listing → Potentially Responsible Party (PRP) Search* → Early Response Action (ERA)**

Remedial Investigation (RI)

Land & Water Use Study → Remedial Objectives (RO) Report

Feasibility Study (FS)

Proposed Remedial Action Plan (PRAP)

Record of Decision (ROD) → Implementation of Remedy → Operation & Maintenance (O&M) → Removal from Registry

*PRP search proceeds concurrently with RI and FS

**ERAs can occur anytime before a PRAP and can occur concurrently with the rest of phases
B. Designated Spokesperson

The designated spokesperson will inform the public of upcoming events, ensure that the CIP is implemented according to schedule, and act as liaison between ADEQ and the community. Additionally, the spokesperson will determine methods for personal contact, arrange for translators at meetings as needed, and coordinate the recording of presentations, when applicable. Contact information for the Central Phoenix WQARF sites’ designated spokesperson is below:

<table>
<thead>
<tr>
<th>Community Involvement Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADEQ</td>
</tr>
<tr>
<td>1110 West Washington Street, 6th Floor</td>
</tr>
<tr>
<td>Phoenix, AZ 85007</td>
</tr>
<tr>
<td>(602) 771-2336</td>
</tr>
<tr>
<td>Or</td>
</tr>
<tr>
<td>(800) 234-5677, Ext. 6027712336</td>
</tr>
<tr>
<td>Fax: (602) 771-4272</td>
</tr>
<tr>
<td>View Community Involvement Contacts Online:</td>
</tr>
<tr>
<td><a href="http://www.azdeq.gov/node/337">http://www.azdeq.gov/node/337</a></td>
</tr>
</tbody>
</table>

C. Information Repository and Website

Information repositories of existing documents related to the Central Phoenix WQARF sites are available for review online and in person. Documents in the repository include the WQARF Site Registry Reports; Final RI Reports; CIP; Feasibility Study Work Plans; site fact sheets; public notices; and CAB meeting materials. Documents relating to future milestones in the WQARF process will be added to the repository as they are completed. The information repositories for each site is in the following table:

<table>
<thead>
<tr>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>7th Avenue and Bethany Home Road:</td>
</tr>
<tr>
<td><a href="http://www.azdeq.gov/node/323">www.azdeq.gov/node/323</a></td>
</tr>
<tr>
<td>7th Street and Missouri Avenue:</td>
</tr>
<tr>
<td><a href="http://www.azdeq.gov/node/1120">www.azdeq.gov/node/1120</a></td>
</tr>
<tr>
<td>16th Street and Camelback:</td>
</tr>
<tr>
<td><a href="http://www.azdeq.gov/node/809">www.azdeq.gov/node/809</a></td>
</tr>
<tr>
<td>Central and Camelback:</td>
</tr>
<tr>
<td><a href="http://www.azdeq.gov/node/829">www.azdeq.gov/node/829</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>In Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADEQ Records Center</td>
</tr>
<tr>
<td>1110 West Washington Street</td>
</tr>
<tr>
<td>Phoenix, AZ 85007</td>
</tr>
<tr>
<td>(602) 771-4380</td>
</tr>
<tr>
<td>Or</td>
</tr>
<tr>
<td>(800) 234-5677, Ext. 6027714380</td>
</tr>
</tbody>
</table>

To make alternative arrangements to review documents in person, contact the ADEQ Community Involvement Coordinator.
Chapter 1 – Site Overviews

This chapter provides a map, overview and historical information for the Central Phoenix WQARF sites.

Central Phoenix WQARF Site Maps

The map below shows the contaminated groundwater plume boundaries for each Central Phoenix WQARF site.
The 7th Avenue and Bethany Home Road WQARF site is in a commercial and residential area of central Phoenix. The approximate boundaries of the contaminated groundwater plume are Maryland Avenue to the north, Bethany Home Road to the south, North 5th Avenue to the east, and North 8th Avenue to the west.

The site formerly housed a dry cleaner in a shopping center east of 7th Avenue. In 2004, ADEQ added the site to WQARF Registry with an Eligibility and Evaluation (E&E) score of 29 out of 120. The major factor leading to the site’s score was the detection of tetrachloroethene (PCE) in groundwater at concentrations above Aquifer Water Quality Standards (AWQS). Additional contaminants of concern (COCs) at the site are trichloroethene (TCE), and vinyl chloride.

ADEQ released the site’s final Remedial Investigation (RI) in 2011, the Feasibility Study (FS) in 2012, and the Proposed Remedial Action Plan (PRAP) in 2015. ADEQ issued the site’s Record of Decision (ROD) in 2016, announcing the site’s remedy as enhanced reductive dechlorination (ERD) with monitored natural attenuation (MNA). From 2018 to 2020, ADEQ continued remediating the site according to the ROD. Additional ERD injections and performance monitoring will continue as planned.

For a complete history of the 7th Avenue and Bethany Home Road WQARF site, see Appendix A.
7th Street and Missouri Avenue

The 7th Street and Missouri Avenue WQARF site is in a mixed commercial and residential area of central Phoenix. The site’s contaminated groundwater plume boundaries are approximately Bethany Home Road to the north, East Georgia Avenue to the south, North 12th Street to the east, and North 6th Street to the west.

After years of investigation, ADEQ added the site to the WQARF Registry in 2016 with an E&E score of 42 out of 120. The major factor leading to the site’s score was the presence of PCE and TCE in groundwater above AWQS. Additional compounds detected in the site’s groundwater included cis-1,2-dichloroethene and benzene.

ADEQ released the site’s RI in 2018, which identified the southwest corner of 7th Street and Missouri Avenue as the likely contamination source area. The former Kino Drapery Cleaners operated at this location before the construction of the current Missouri Falls building. The FS was finalized in September 2019.

As Early Response Actions (ERAs), ADEQ installed a soil vapor extraction (SVE) system in the basement of the Missouri Falls building and pilot tested ozone sparge injections near the former Kino’s Drapery Cleaners facility. The ozone sparge system expanded in 2020 to continue reducing concentrations of the site’s groundwater COCs.

ADEQ released the site’s Proposed Remedial Action Plan (PRAP) in March 2020 for public comment. The proposed remedy includes continued operation of the existing SVE system, in situ chemical oxidation using ozone injections, and MNA. The site’s ozone sparge system will continue to operate as ADEQ completes the site’s Record of Decision.

For a complete history of the 7th Street and Missouri Avenue WQARF site, see Appendix A.

16th Street and Camelback

The 16th Street and Camelback WQARF site is located in a commercial area of central Phoenix. The boundaries of the site’s contaminated groundwater plume are approximately Camelback Road to the north, Highland Avenue to the south, 17th Street to the east, and 15th Street to the west.

ADEQ added the site to the WQARF Registry in 1999, with an E&E score of 23 out of 120. The major factor leading to the site’s score was the presence of PCE in groundwater above AWQS. A former dry cleaner is the suspected source of PCE contamination. A former vehicle service station is the suspected source of 1,2-dichloroethane and 1,2-dichloropropane, also detected in the site’s groundwater.

ADEQ completed the site’s RI, Remedial Objectives (RO) report and FS in 2015. ADEQ finalized the PRAP in 2016. The site’s ROD, completed in 2017, announced MNA as the final remedy. From 2017 to 2019, ADEQ performed ERD injections from to accelerate the MNA process. ADEQ continued groundwater monitoring in 2020 to evaluate the remedy’s effectiveness.

For a complete history of the 16th Street and Camelback WQARF site, see Appendix A.
Central and Camelback

The Central and Camelback WQARF site is located in a mixed commercial and residential area of central Phoenix. There are two separate groundwater plumes with PCE and TCE concentrations above AWQS. The plumes’ approximate boundaries are Georgia Avenue to the north, Mariposa Street to the south, 2nd Street to the east, and 1st Avenue to the west.

ADEQ added the Southwest Corner Source Area (SCSA) portion of the site to the WQARF Registry in 1999 with an E&E score of 31 out of 120. In June 2000, ADEQ expanded the site boundaries, including the Southwest Corner Source Area (SCSA), with a new E&E score of 32.

The COCs for the site’s groundwater include PCE and TCE; for soil, the COC is PCE. The former Maroney’s Cleaners and Laundry facility is the identified source of these COCs. Additional contaminants detected in the site’s groundwater include benzene, toluene, ethylbenzene, total xylenes, methyl tertiary butyl ether (MTBE), and 1,2-dichloroethane. The presence of these contaminants is due to a leaking underground storage tank and managed by a different ADEQ program.

As ERAs, ADEQ implemented a groundwater treatment system in 2003 and a SVE system in 2007. The groundwater treatment system shut down in 2018 due to low VOC recovery; it currently remains offline. The SVE system continues to operate on an intermittent schedule.

ADEQ released the site’s RI and RO report in 2014 and the FS in 2015. In 2017, ADEQ finalized the site’s PRAP for public comment. As of 2020, ADEQ is finalizing the site’s ROD for release in 2021.

For a complete history of the Central and Camelback WQARF site, see Appendix A.
A. **Community Involvement Areas**

ADEQ establishes a CIA for each site on the WQARF Registry according to A.R.S. § 49-289.02(A) and (B). A CIA designates a geographic area to deliver site-related mailings. CIA boundaries are determined based on site-specific characteristics, including the impacted media (e.g., soil, groundwater), exposure routes, proximity to residential areas and public facilities, and community interest level. The CIA boundaries may change as ADEQ receives new information.

The following maps show the CIAs for each Central Phoenix WQARF site.
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7th St and Missouri Ave WQARF Site Community Involvement Area (CIA)

Date Saved: 11/30/2020

Plume boundaries depicted on the site map represent ADEQ’s interpretation of data available at the time the map was constructed. The map is intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the plume for this site may change in the future as new information becomes available.
B. Community Demographics

The 2010 U.S. Census reported the population of Phoenix as 1,445,632, making it the most populous city in Arizona. The CIA boundaries for the Central Phoenix WQARF sites includes four zip codes (85012, 85013, 85014, and 85016) containing 85,382 people and approximately 40,042 households.

According to the 2010 U.S. Census data for the CIA zip codes, more residents were homeowners (54.7%) than renters (45.3%). The median resident age was 38.6, nearly three years older than the median age for all Arizona residents (35.9).\footnote{Calculations are an average of the four zip codes.}

Among residents in the CIA zip codes, approximately 72.7% identify themselves as White; 6.0% as Black or African American; 4.2% as American Indian or Alaska Native; 3.5% as Two or More Races; 2.7% as Asian; 0.1% as Native Hawaiian; and 10.9% as Some Other Race.\footnote{Percentages are an average of the four zip codes and are rounded to the nearest tenth; they do not total to 100 percent exactly.} People of Hispanic or Latino origin comprised 26.2% of the population within the CIA zip codes. This is lower than Arizona’s overall Hispanic and Latino population (29.6%).

All percentages in this section are averages of the 2010 U.S. Census data for the zip codes within the Central Phoenix WQARF sites’ CIA. ADEQ recognizes the limitations of U.S. Census data to establish community demographics and welcomes feedback on the demographics presented in this section.
Central Phoenix WQARF Sites
Population Groups

Note: Individuals identifying as Hispanic or Latino may be of any race and are already accounted for in the population percentages for the racial groups within each zip code, city, and state.
ADEQ looks at the community as a whole, with an emphasis on the proportion of residents under age five or above age 65. These populations are considered more vulnerable to the potential health effects associated with exposure to environmental contamination. Based on 2010 U.S. Census data, the graph below shows the proportion of vulnerable populations within the Central Phoenix WQARF sites’ CIAs.

For more information about the CIAs, please refer to Appendix B for neighborhood associations, community schools, and vulnerable population centers, and Appendix C for local and state elected officials.
Chapter 3 – Community Issues and Concerns

To understand the community and its concerns, ADEQ conducted phone interviews with individuals previously or currently living and working near the 7th Avenue and Bethany Home Road and Central and Camelback WQARF sites. This section summarizes common concerns about the environment, human health, and ADEQ outreach activities.

A. Environmental and Health Concerns

Familiarity with the 7th Avenue and Bethany Home Road and Central and Camelback WQARF sites varied among interviewees. The concerns expressed about the current status of the sites echoed larger concerns about the future of the sites, possible health issues related to the sites, and the condition of the water supply. Many of the interviewees expressed interest in “redevelopment [of the sites area] into something useful” for the community. Environmental and health concerns expressed by the interviewees spanned a variety of topics. Specific concerns noted by the interviewees included:

- Could the contaminated groundwater affect drinking or irrigation water supplies?
- How could the contamination affect water quality?
- Could building on the sites consider all environmental issues?
- Could the contamination harm property values, future development or traffic?
- How toxic are the sites and how does it affect people living near the sites?
- Is it safe to live in or near the sites?

Almost all interviewees wanted to know about the remedy for the sites, as well as future investigations and a timeline for cleanup.

---

3 Some interviewees thought the property was publicly owned.
B. Outreach and Other Concerns

Interviewees provided the following feedback and suggestions on current and future outreach related to the 7th Avenue and Bethany Home Road and Central and Camelback WQARF sites:

- Interviewees stated that they received information regarding the WQARF sites primarily from U.S. Mail and email notices, with some interviewees noting information obtained from local newspapers.
- Other suggested communication methods included:
  - Communication with neighborhood associations
  - Articles in local newspapers
  - Telephone calls
- One interviewee suggested publishing meeting summaries in the North Central News.
- Several interviewees suggested holding CAB meetings closer to the WQARF sites.

C. Response to Community Issues and Concerns

ADEQ uses the information gathered from community interviews, CAB and public meetings, and direct contact to ensure that future outreach activities and materials are able to address community questions and concerns, as well as keep the community informed of WQARF site activities. Community feedback also helps ADEQ tailor outreach and communication methods to the specific needs of the community.
Chapter 4 – Community Involvement Action Plan

In addition to providing the framework to investigate and clean up contaminated sites, the WQARF program requires ADEQ to involve the community throughout the cleanup process. The following Community Involvement Action Summary describes the required community involvement activities according to each WQARF phase and illustrates where the Central Phoenix WQARF sites are in the WQARF process. A description of the communication methods and techniques available for use follows this summary. Multiple techniques to communicate with and educate the public can be used throughout the process.

A. Community Involvement Action Summary – Required Activities

The following table describes the required community involvement actions for the Central Phoenix WQARF sites and notes what actions have been completed to date. The Community Involvement Action Summary table is color coded to match the WQARF process flow chart in the CIP Introduction.
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## Community Involvement Action Summary

<table>
<thead>
<tr>
<th>WQARF Phase</th>
<th>Mandated ADEQ Community Involvement Activity (See Chapter 4, Section B, for a detailed description of the applied communication techniques described here.)</th>
<th>Statute (A.R.S) and Rule (A.A.C) References</th>
<th>Activity to Date</th>
<th>Complete</th>
</tr>
</thead>
</table>
| Preliminary Investigation | Provide owners and operators a copy of the Draft WQARF Site Registry Report for a 15-day comment period prior to publishing a notice in a newspaper announcing the availability of the Draft WQARF Site Registry Report for a 30-day public comment period. | A.R.S. § 49-287.01(C) A.R.S. § 49-289.03(A)(1) | Mailing to owners and operators:  
- 7th Avenue and Bethany Home Road, March 2004  
- 7th Street and Missouri Avenue, April 2016  
- 16th Street and Camelback, June 2014  
- Central and Camelback, February 2000  
Public notice/comment; published in Arizona Business Gazette or The Arizona Republic:  
- 7th Avenue and Bethany Home Road, July 2004  
- 7th Street and Missouri Avenue, May 2016  
- 16th Street and Camelback, June 2014  
- Central and Camelback, April 2000 | ✓ ✓ ✓ ✓ |
| WQARF Registry Listing | Following the listing of a site on the WQARF Registry, ADEQ will:  
- Establish a preliminary community involvement area within 90 days of site listing on the WQARF Registry.  
- Provide written notice to the community on hazardous substance contamination in the area, the actual and potential risks and routes of exposure, possible health effects, and the opportunity to join the site mailing list.  
- Identify ADEQ personnel to contact for further information. | A.R.S. § 49-289.02 | Notice to community and development of a community involvement area:  
- 7th Avenue and Bethany Home Road, October 2008 (hazardous substance notice first appeared in 2004 fact sheet)  
- 7th Street and Missouri Avenue, July 2016  
- 16th Street and Camelback, June 2014  
- Central and Camelback, June 2000 | ✓ ✓ ✓ ✓ |
## Community Involvement Action Summary

<table>
<thead>
<tr>
<th>WQARF Phase</th>
<th>Mandated ADEQ Community Involvement Activity (See Chapter 4, Section B, for a detailed description of the applied communication techniques described here.)</th>
<th>Statute (A.R.S) and Rule (A.A.C) References</th>
<th>Activity to Date</th>
<th>Complete</th>
</tr>
</thead>
</table>
| WQARF Registry Listing (concluded) | Develop a Community Involvement Plan that establishes a Community Advisory Board, designates a spokesperson, provides for newsletters with current information about the status of remedial actions at the site, establishes a public document repository location, and provides for schedules of Community Advisory Board meetings and public meetings. Update the Community Involvement Plan at least every 2 years. | A.R.S. § 49-287.03(D)  
A.R.S. § 49-289.03(B)  
A.R.S. § 49-289.03(C)  
A.A.C. R18-16-404(C)(1)(i)  
A.A.C. R18-16-404(C)(1)(j)  
A.A.C. R18-16-404(C)(1)(k)  
A.A.C. R18-16-404(C)(1)(o) | Site-Specific CIPs:  
- 7th Avenue and Bethany Home Road, February 2014  
- 7th Street and Missouri Avenue (combined CIP), August 2016  
- 16th Street and Camelback (combined CIP), December 2014  
- Central and Camelback, September 2000  
Combined CIP Updates:  
- August 2016; November 2018; January 2019; November 2019; December 2020 | 7th Avenue and Bethany Home Road  
7th Street and Missouri Avenue  
16th Street and Camelback  
Central and Camelback |

### Early Response Action

A work plan shall be prepared for each Early Response Action that will include a description of work to be done, known site conditions, a plan for conducting the work; a description of community involvement activities for the Early Response Action under R18-16-404; and a schedule.

Community involvement activities may include development of a community involvement plan under A.A.C. R18-16-404(C) or community involvement activities appropriate to the scope and schedule of the work performed such as a general public notice to those who may be impacted by field work as indicated in A.A.C. R18-16-404(D)(2).

If immediate action is necessary to address a current risk to public health or the environment, to protect a source of water, or to provide a supply of water, the work plan and written rationale may be prepared and the community involvement activities may be conducted after commencement of the Early Response Action.

|  | A.A.C. R18-16-404  
A.A.C. R18-16-405(D)(2)  
A.A.C. R18-16-405(E)  
A.A.C. R18-16-405(G) | Public Notices:  
- 7th Avenue and Bethany Home Road, October 2004  
- 7th Street and Missouri Avenue, June 2018  
- 16th Street and Camelback, June 2014  
- Central and Camelback, June 2001 | 7th Avenue and Bethany Home Road  
7th Street and Missouri Avenue  
16th Street and Camelback  
Central and Camelback |

<table>
<thead>
<tr>
<th>Activity to Date</th>
<th>Site-Specific CIPs:</th>
<th>Combined CIP Updates:</th>
<th>Public Notices:</th>
<th>Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>7th Avenue and Bethany Home Road</td>
<td>7th Street and Missouri Avenue (combined CIP), August 2016</td>
<td>- August 2016; November 2018; January 2019; November 2019; December 2020</td>
<td>- 7th Avenue and Bethany Home Road, October 2004</td>
<td>✓  ✓  ✓  ✓  ✓</td>
</tr>
<tr>
<td>7th Street and Missouri Avenue</td>
<td>16th Street and Camelback (combined CIP), December 2014</td>
<td></td>
<td>7th Street and Missouri Avenue, June 2018</td>
<td>✓  ✓  ✓  ✓  ✓</td>
</tr>
<tr>
<td>Central and Camelback</td>
<td>Central and Camelback, September 2000</td>
<td></td>
<td>16th Street and Camelback, June 2014</td>
<td>✓  ✓  ✓  ✓  ✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Central and Camelback, June 2001</td>
<td>✓  ✓  ✓  ✓  ✓</td>
</tr>
</tbody>
</table>
## Community Involvement Action Summary

<table>
<thead>
<tr>
<th>WQARF Phase</th>
<th>Mandated ADEQ Community Involvement Activity (See Chapter 4, Section B, for a detailed description of the applied communication techniques described here.)</th>
<th>Statute (A.R.S) and Rule (A.A.C) References</th>
<th>Activity to Date</th>
<th>Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remedial Investigation 1</td>
<td>Provide notice to interested parties announcing the availability of the Remedial Investigation Scope of Work or Work Plan, Fact Sheet, and Community Involvement Plan Outline for review and a 30-day public comment period. Provide notice indicating that any person, by written agreement with ADEQ may develop and implement a work plan for the Remedial Investigation and Feasibility Study and solicit information regarding the current and future land and water uses at the site. These notices shall also provide an opportunity to request a public meeting.</td>
<td>A.R.S. § 49-287.03(B) A.R.S. § 49-287.03(C) A.A.C. R18-16-301(C) A.A.C. R18-16-403(F) A.A.C. R18-16-403(G) A.A.C. R18-16-404(C)(1)(a) A.A.C. R18-16-406(B) A.A.C. R18-16-406(D)</td>
<td>Combined notices: - 7th Avenue and Bethany Home Road, April 2009 - 7th Street and Missouri Avenue, August 2016 - 16th Street and Camelback, June 2014 - Central and Camelback, February 2001 (A.R.S. § 49-287.03 notices were submitted in 2007)</td>
<td>7th Avenue and Bethany Home Road 7th Street and Missouri Avenue 16th Street and Camelback Central and Camelback</td>
</tr>
<tr>
<td>Remedial Investigation 2</td>
<td>Establish a selection committee to choose Community Advisory Board members for the site. The selection committee shall consist of the following number of people from each organization: - ADEQ: 1 - Potentially Responsible Party: 1 - Local Official: 1 - Local Community: 2</td>
<td>A.R.S. § 49-289.03(D)</td>
<td>Selection committee: - 7th Avenue and Bethany Home Road, March 2010 - 7th Street and Missouri Avenue, no selection committee; merged with existing Community Advisory Board - 16th Street and Camelback, no selection committee; merged with existing Community Advisory Board - Central and Camelback, August 2000</td>
<td>7th Avenue and Bethany Home Road 7th Street and Missouri Avenue 16th Street and Camelback Central and Camelback</td>
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<td>Complete</td>
</tr>
</tbody>
</table>

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4 A potentially responsible party search is conducted concurrently with the Remedial Investigation and Feasibility Study, but does not have mandated community involvement activities.

5 Data collected from land and water use studies will be incorporated into the Remedial Investigation and/or Remedial Objectives report per A.A.C. R18-16-406(D)-(I).
<table>
<thead>
<tr>
<th>WQARF Phase</th>
<th>Mandated ADEQ Community Involvement Activity (See Chapter 4, Section B, for a detailed description of the applied communication techniques described here.)</th>
<th>Statute (A.R.S) and Rule (A.A.C) References</th>
<th>Activity to Date</th>
<th>Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remedial Investigation (continued)</td>
<td>Establish a Community Advisory Board of between 5 to 20 members that represent a diversified cross section of the community. Within 90 days of appointment by the Community Advisory Board selection committee, the Community Advisory Board shall elect co-chairpersons and develop a charter defining operating procedures, membership terms and obligations, goals for developing issues, concerns and opportunities related to quick cleanup of the site, and any other anticipated activities for identifying and improving the public’s access and understanding of information regarding the remediation process at the site.</td>
<td>A.R.S. § 49-289.03(C) A.R.S. § 49-289.03(E) A.R.S. § 49-289.03(F)</td>
<td>Establish Community Advisory Board (CAB); - 7th Avenue and Bethany Home Road, May 2010 - 7th Street and Missouri Avenue, joined existing CAB August 2016 - 16th Street and Camelback, joined existing CAB July 2014 - Central and Camelback, September 2000 7th Avenue and Bethany Home Road and Central and Camelback CABs merged on August 20, 2013; 16th Street and Camelback CAB merged on July 23, 2014; 7th Street and Missouri merged in August 2016.</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>Publish a combined6 public notice announcing the availability of the Draft Remedial Investigation Report for review and a minimum 30-day public comment period, as well as hold a public meeting to solicit Remedial Objectives for the site. The public meeting shall be held not less than 45 calendar days and not more than 90 calendar days after release of the Draft Remedial Investigation report, unless ADEQ sets a different date for good cause.</td>
<td>A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(b) A.A.C. R18-16-406(F) A.A.C. R18-16-406(1)(1) A.A.C. R18-16-406(1)(2)</td>
<td>Draft Remedial Investigation public notice and comment; - 7th Avenue and Bethany Home Road, August 2010 - 7th Street and Missouri Avenue, May 2018 - 16th Street and Camelback, January 2015 - Central and Camelback, May 2014 Remedial Objectives public meeting; - 7th Avenue and Bethany Home Road, July 2010 - 7th Street and Missouri Avenue, July 2018 - 16th Street and Camelback, March 2015 - Central and Camelback, July 2014</td>
<td>✓ ✓ ✓ ✓</td>
<td></td>
</tr>
</tbody>
</table>

6 If not combined, separate public notices will be provided for the Draft Remedial Investigation/comment period and the Remedial Objectives solicitation and public meeting.
<table>
<thead>
<tr>
<th>WQARF Phase</th>
<th>Mandated ADEQ Community Involvement Activity (See Chapter 4, Section B, for a detailed description of the applied communication techniques described here.)</th>
<th>Statute (A.R.S) and Rule (A.A.C) References</th>
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<tbody>
<tr>
<td>Remedial Investigation (concluded)</td>
<td>Publish a public notice announcing the availability of the Proposed Remedial Objectives Report for a 30-day public comment period. Publish a public notice of the availability of the Final Remedial Investigation Report, which shall contain results of site characterization and the final Remedial Objectives Report. The final Remedial Investigation report shall be accompanied by responsiveness summaries regarding comments, issues and concerns raised in the community involvement process and, if the report is prepared by a person other than ADEQ, copies of the comments received.</td>
<td>A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(c) A.A.C. R18-16-406(d)(5) A.A.C. R18-16-406(J)</td>
<td>Proposed Remedial Objectives Report public notice and comment: -7th Avenue and Bethany Home Road, February 2011 -7th Street and Missouri Avenue, August 2018 -16th Street and Camelback, April 2015 -Central and Camelback, October 2014</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>Feasibility Study</td>
<td>Provide notice to interested parties announcing the availability of the Feasibility Study Work Plan*. Although not mandated, ADEQ will also provide public notice upon completion of the Feasibility Study.</td>
<td>A.A.C. R18-16-404(C)(1)(d) A.A.C. R18-16-407(B)</td>
<td>Feasibility Study Work Plan public notice: -7th Avenue and Bethany Home Road, June 2010 -7th Street and Missouri Avenue, November 2018 -16th Street and Camelback, May 2015 -Central and Camelback, February 2015</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>WQARF Phase</td>
<td>Mandated ADEQ Community Involvement Activity (See Chapter 4, Section B, for a detailed description of applied communication techniques described here.)</td>
<td>Statute (A.R.S) and Rule (A.A.C) References</td>
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<tr>
<td>Proposed Remedial Action Plan</td>
<td>Publish a public notice announcing the availability of the Proposed Remedial Action Plan for a 90-day public comment period. Mail the same notice to interested parties. The notice will describe the proposed remedy and its estimated cost and identify where the Proposed Remedial Action Plan, Remedial Investigation, and Feasibility Study Reports may be inspected.</td>
<td>A.R.S. § 49-287.04(B) A.R.S. § 49-289.03(A)(2) A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(c) A.A.C. R18-16-408(A)</td>
<td>Proposed Remedial Action Plan public notice: - 7th Avenue and Bethany Home Road, April 2015 - 7th Street and Missouri Avenue, March 2020 - 16th Street and Camelback, August 2016 - Central and Camelback, July 2017</td>
<td>✔️ ✔️ ✔️ ✔️</td>
</tr>
<tr>
<td>Record of Decision</td>
<td>Publish a public notice announcing the availability of the Record of Decision and Responsiveness Summary for review.</td>
<td>A.R.S. § 49-287.04(G) A.A.C. R18-16-04(C)(1)(f) A.A.C. R18-16-410</td>
<td>Record of Decision public notice: - 7th Avenue and Bethany Home Road, June 2016 - 16th Street and Camelback, May 2017</td>
<td>✔️ ✔️</td>
</tr>
<tr>
<td>Implementation of Remedy (Remedial Actions)</td>
<td>Publish a public notice announcing a request for ADEQ to approve remedial actions at the site. The notice will provide the opportunity for a 30-day public comment period. Provide notice to the public and interested parties of a request for ADEQ to waive a regulatory requirement (permit) to complete remedial actions. Provide notice to the public that fieldwork conducted to remove contaminants of concern may result in noise, light, odor, dust or other adverse impacts.</td>
<td>A.A.C. R18-16-301(C) A.A.C. R18-16-04(C)(1)(h) A.A.C. R18-16-413</td>
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<td>A.R.S. § 49-290 A.A.C. R18-16-404(C)(1)(l)</td>
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<td></td>
<td>A.A.C. R18-16-404(C)(1)(m)</td>
<td>Numerous field activity notices provided to the community.</td>
<td>✔️ ✔️ ✔️ ✔️</td>
</tr>
</tbody>
</table>
## Community Involvement Action Summary

<table>
<thead>
<tr>
<th>WQARF Phase</th>
<th>Mandated ADEQ Community Involvement Activity</th>
<th>Statute (A.R.S) and Rule (A.A.C) References</th>
<th>Activity to Date</th>
<th>Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation of Remedy (Remedial Actions)</td>
<td>Provide notice to the public of a request for ADEQ to determine whether each of the Remedial Objectives for a site have been satisfied and will continue to be satisfied. The notice will provide the opportunity for a 30-day public comment period on the request.</td>
<td>A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(n) A.A.C. R18-16-416(B)</td>
<td>- 7th Avenue and Bethany Home Road, September 2016</td>
<td>✔️</td>
</tr>
<tr>
<td>Operation &amp; Maintenance</td>
<td>Publish a public notice announcing the availability of the Operation &amp; Maintenance Plan for review and a 30-day public comment period. Mail the same notice to interested parties.</td>
<td>A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(g) A.A.C. R18-16-411(E)</td>
<td>- 7th Avenue and Bethany Home Road, September 2016</td>
<td>✔️</td>
</tr>
<tr>
<td>Removal from WQARF Registry</td>
<td>Although not mandated by Arizona statute or administrative code, ADEQ may publish a public notice upon the removal of the site from the WQARF Registry.</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any Phase</td>
<td>Publish a public notice announcing a request to ADEQ for a prospective purchaser agreement. The notice will provide the opportunity for a 30-day public comment period.</td>
<td>A.R.S. § 49-289.03(A)(3) A.A.C. R18-16-301(C)</td>
<td>- 7th Avenue and Bethany Home Road: -No prospective purchaser agreement requests to date. -7th Street and Missouri Avenue: -No prospective purchaser agreement requests to date. -16th Street and Camelback: -No prospective purchaser agreement requests to date. -Central and Camelback: -Two prospective purchaser agreement notices published in 1998 and January 2008 (see Appendix G).</td>
<td>✔️</td>
</tr>
</tbody>
</table>
## Community Involvement Action Summary

<table>
<thead>
<tr>
<th>WQARF Phase</th>
<th>Mandated ADEQ Community Involvement Activity</th>
<th>Statute (A.R.S) and Rule (A.A.C) References</th>
<th>Activity to Date</th>
<th>Complete</th>
</tr>
</thead>
</table>
| Any Phase   | Publish a public notice announcing the intention of ADEQ to enter into a settlement agreement with a responsible party. The notice will provide the opportunity for a 30-day public comment period. | A.R.S. § 49-289.03(A)(4) A.A.C. R18-16-301(C) | 7th Avenue and Bethany Home Road:  
- One consent decree settlement notice published in 2005 (see Appendix H).  
- One consent decree settlement 2016 (see Appendix H).  
7th Street and Missouri Avenue:  
- No settlement agreement requests submitted to date.  
16th Street and Camelback:  
- One consent decree in 1994 (see Appendix H); notice date unknown.  
Central and Camelback:  
- No settlement agreement requests submitted to date. | 7th Avenue and Bethany Home Road | ✓ | 7th Street and Missouri Avenue | 16th Street and Camelback | Central and Camelback |
B. Community Involvement Action Summary – Communication Techniques

This section describes the specific activities and resources ADEQ uses to communicate, educate, and involve the community and stakeholders in the Central Phoenix WQARF sites.

ADEQ uses the following resources to inform stakeholders throughout the WQARF process:

1. **CAB** – The Central and Camelback CAB began meeting in 2000. The 7th Avenue and Bethany Home Road CAB formed in May 2010. These two CABs merged on August 20, 2013. The 16th Street and Camelback CAB joined with the combined CAB on July 23, 2014, after which the CAB name changed to the Central Phoenix CAB. The 7th Street and Missouri Avenue CAB joined the Central Phoenix CAB in August 2016. CAB members advise ADEQ on appropriate means of delivering site information as well as provide input regarding content. CAB members also serve as an information resource for their community. CAB meetings are held at a location and date mutually agreed upon by the CAB members and an ADEQ representative. Care is taken to ensure the location is easily accessible for the public to attend. For a list of CAB members, see Appendix D.

2. **Local Print Media** – ADEQ will publish all WQARF milestone public notices in the *Arizona Business Gazette*, which has a search function for public notices ([http://archive.azcentral.com/class/azbjnotices.html](http://archive.azcentral.com/class/azbjnotices.html)). For a list of other media outlets, see Appendix G.

3. **U.S. Mail and Email Lists** – ADEQ maintains U.S. Mail and email address lists for the Central Phoenix WQARF sites. These lists include CAB members, local elected and appointed officials, neighborhood and homeowner associations, schools, vulnerable population centers, and other interested parties. Email addresses are gathered through the ADEQ website “subscribe” feature. Addresses are updated on an ongoing basis through CIP updates; return mailers from fact sheets; attendance lists from CAB, open house, and public meetings; and other individual requests.

4. **ADEQ Website** – ADEQ’s website provides visitors with three areas of information related to WQARF sites:
   - **sNotices Page** – information regarding WQARF site public notices and comment periods ([http://azdeq.gov/notices](http://azdeq.gov/notices)).
   - **Events Page** – information regarding WQARF site public meetings, including CAB meetings ([http://www.azdeq.gov/events](http://www.azdeq.gov/events)).
   - **WQARF Site Information Pages** – detailed site information and document repository for each WQARF site:
     - 7th Avenue and Bethany Home Road: [http://www.azdeq.gov/node/323](http://www.azdeq.gov/node/323)
     - 7th Street and Missouri Avenue: [http://www.azdeq.gov/node/1120](http://www.azdeq.gov/node/1120)
     - 16th Street and Camelback: [http://www.azdeq.gov/node/809](http://www.azdeq.gov/node/809)
     - Central and Camelback: [http://www.azdeq.gov/node/829](http://www.azdeq.gov/node/829)
5. **ADEQ Notice Board** – Notice boards are located in ADEQ’s Phoenix and Tucson offices.

6. **Public Meetings** – Public meetings or open houses, beyond the CAB meetings, can be scheduled and conducted as needed and as determined by ADEQ and the CAB (for example, meetings with neighborhood/homeowners’ associations, schools or other community groups).

7. **Site Tours** – Tours of the sites can be requested by contacting the ADEQ Community Involvement Coordinator. ADEQ will consult with property owners and comply with current laws and regulations while arranging a requested tour.

The following table shows how these techniques have and will be used throughout the WQARF process for the Central Phoenix WQARF sites.
<table>
<thead>
<tr>
<th>Type</th>
<th>Why</th>
<th>When</th>
<th>CAB Members</th>
<th>Interested Parties List</th>
<th>ADEQ Website</th>
<th>Local Print Media</th>
<th>ADEQ Notice Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notice</td>
<td>Provide notice of availability of milestone documents, request comments, and solicit input.</td>
<td>Per mandate (see Community Involvement Action Summary table).</td>
<td>✓</td>
<td>✓</td>
<td>(site and calendar pages)</td>
<td>✓ (Arizona Business Gazette)</td>
<td>✓</td>
</tr>
<tr>
<td>CAB/Public Meeting Notice and Agenda</td>
<td>Provide two-way communication about the status of site activities. The notice announces the meeting and provides the agenda.</td>
<td>Variable schedule based on level of site activity as scheduled by CAB and ADEQ, with the exception of the required public meeting for the solicitation of remedial objectives.</td>
<td>✓</td>
<td>✓</td>
<td>(site and calendar pages)</td>
<td>Not applicable</td>
<td>✓</td>
</tr>
<tr>
<td>Technical Presentation</td>
<td>Provide current information about site activity or related topics.</td>
<td>At CAB meetings or at specially requested public meetings.</td>
<td>✓</td>
<td>Not applicable</td>
<td>(site pages)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Technical Milestone Document</td>
<td>Provide current technical information about site investigation/remediation activities (e.g., Remedial Investigation, Feasibility Study, etc.).</td>
<td>According to the WQARF Process as documents are developed and become available.</td>
<td>✓</td>
<td>Not applicable</td>
<td>(online information repository)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Site Fact Sheet/Newsletter</td>
<td>Provide current information about site activity.</td>
<td>Published at the start of the Remedial Investigation and at specific milestones or other times as deemed appropriate by ADEQ and the CAB.</td>
<td>✓</td>
<td>✓</td>
<td>(online information repository)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Public Meeting – Solicitation of Remedial Objectives</td>
<td>Provide forum to solicit Remedial Objectives. This meeting may be conducted in conjunction with a CAB meeting.</td>
<td>45-90 days after release of draft Remedial Investigation report.</td>
<td>✓</td>
<td>✓</td>
<td>(site and calendar pages)</td>
<td>(Arizona Business Gazette)</td>
<td>✓</td>
</tr>
<tr>
<td>Site Tour</td>
<td>Provide walking or driving tour of the site to observe current site conditions and the surrounding community and environment.</td>
<td>If requested, and with cooperation of current property owners.</td>
<td>Contact ADEQ Community Involvement Coordinator.</td>
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Communications deliverables can be translated into Spanish if necessary or requested.
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C. Other Resources and Contacts

The appendices included in this CIP provide additional resources and contact information for the public to use as desired.

- **Appendix A** provides a history of major activities by year for each Central Phoenix WQARF site.

- **Appendix B** provides a list of targeted communities in the Central Phoenix WQARF sites CIAs. These include neighborhood associations, community schools, and vulnerable population centers located in the CIAs.

- **Appendix C** provides a table of local and state elected officials, by district, who represent communities within the CIAs. Note that some districts may encompass more of the CIAs than others.

- **Appendix D** provides a table of the current CAB members for the Central Phoenix WQARF sites.

- **Appendix E** provides a list of media outlets in the area. All public notices for the Central Phoenix WQARF sites can be found by searching the *Arizona Business Gazette* publication ([http://archive.azcentral.com/class/azbjnotices.html](http://archive.azcentral.com/class/azbjnotices.html)).

- **Appendix F** provides a list of other related state and local agencies that may be of interest to the public.

- **Appendix G** provides a list of parties that have requested, and received, prospective purchaser agreements from ADEQ for property in and around the Central Phoenix WQARF sites.

- **Appendix H** provides a list of parties that have consent decree settlements with ADEQ pertaining to the Central Phoenix WQARF sites.
Appendix A – Site Histories

The following presents site histories for the Central Phoenix Water Quality Assurance Revolving Fund (WQARF) sites.

7th Avenue and Bethany Home Road

1952–1960 A small shopping center with a market, commercial shops, and a dry cleaner operated on the northeast corner of North 7th Avenue and Bethany Home Road. The dry cleaner opened in 1955.

1995–2001 Three investigations confirmed the presence of tetrachloroethene (PCE) contamination in the site’s soil and groundwater.

2004 ADEQ added the site to the WQARF Registry in August. PCE groundwater concentrations were found as high as 15,000 micrograms per liter (µg/L) beneath the northeast corner of the site. The eligibility and evaluation (E&E) score was 29 out of 120.

In October, ADEQ initiated an early response action (ERA) evaluation to characterize the source area of PCE contamination beneath the site. The ERA evaluation consisted of drilling 10 soil borings, installing five soil vapor extraction (SVE) wells and two groundwater monitoring wells at the site.

2005–2007 Based on the results of the ERA investigation, ADEQ installed an SVE system at the site. After operating from June 2005 to January 2006, the system removed approximately 380 pounds of PCE from the site’s soils. ADEQ decommissioned the SVE system in April 2007 after confirming PCE concentrations below residential soil remediation standards and groundwater protection levels.

2008 ADEQ investigated a property at 6022 North 7th Avenue that operated a dry cleaner from the 1960s to approximately 1990. Results indicated that PCE had been released to the site’s groundwater. PCE concentrations ranged from 8.0 to 24 µg/L. Trichloroethene (TCE) and vinyl chloride were detected above their respective AWQS.

2009 ADEQ began the Remedial Investigation (RI) and completed the outline for the site’s community involvement plan.
7th Avenue and Bethany Home Road (continued)

2010 ADEQ released the site’s Draft RI Report and solicited Remedial Objectives from the public. Groundwater sampling conducted in November indicated that the contaminated groundwater plume continued to move north.

2011 The Final RI and Remedial Objectives Reports were released in May.

2012 ADEQ completed the Feasibility Study in November. Groundwater sampling detected COCs generally at higher concentrations than detected in September 2010.

2013 In April, ADEQ pilot tested enhanced reductive dechlorination (ERD) at the Site. Groundwater samples collected in August indicated the pilot test effectively reduced PCE concentrations within 15 feet of the injection wells; PCE concentrations as high as 550 µg/L reduced to less than 1 µg/L after the pilot test.

2014 ADEQ sampled all 18 groundwater monitoring wells in March. In general, COC concentrations were slightly lower than those detected in April 2013.

2015 ADEQ released the Proposed Remedial Action Plan (PRAP) for public comment in April. The plan proposed ERD with monitored natural attenuation (MNA) as the site’s remedy.

2016 ADEQ issued the site’s Record of Decision (ROD) in June.

2017 ADEQ collected groundwater samples in February and May to monitor (ERD) injection results.

2018–2020 ERD injections continued along with performance monitoring to ensure the site’s remedy remained effective.
7th Street and Missouri Avenue

1969–1981  Kino Drapery Cleaners, the source of the site’s COCs, operated on the southwest corner of 7th Street and Missouri Avenue.

1995  ADEQ detected PCE in groundwater wells monitoring a Leaking Underground Storage Tank (LUST) on the northwest corner of 7th Street and Missouri Avenue. PCE was detected at 720 μg/L, above the AWQS.

1998  A Salt River Project (SRP) well northwest of 7th Street and Missouri Ave intersection detected PCE in its groundwater samples.

2000  PCE and TCE were detected in groundwater samples from several monitoring wells in the area of 7th Street and Missouri Avenue.

2008  ADEQ conducted a soil vapor survey to determine the source of the site’s PCE and TCE contamination.

2010  Based on the results of the soil vapor survey, ADEQ installed monitoring wells near the Fashion Cleaners facility at 736 East Missouri Avenue.

2013  ADEQ installed additional monitoring wells at the former Kino Drapery Cleaners at 5340 North 7th Street. Groundwater monitoring results indicated a release of PCE at this location. ADEQ determined there were no up gradient PCE sources after installing a groundwater monitoring well up gradient of the former Kino Drapery Cleaners.

2014  ADEQ collected soil and soil vapor samples beneath the Missouri Falls building on the southwest corner of 7th Street and Missouri Avenue, where Kino Drapery Cleaners formerly operated. Results indicated a PCE release had occurred at this location.

2016  ADEQ added the site to the WQARF Registry in June with an E&E score of 42 out of 120.

2017  As part of the site’s RI, ADEQ installed two boreholes and five additional groundwater wells to fully characterize the groundwater plume, in addition to determining the extent of the site’s contaminated soil vapor.
7th Street and Missouri Avenue (continued)

2018  In October, ADEQ installed a SVE system in the Missouri Falls basement as an ERA. The Final RI Report and FS work plan were released in November. ADEQ pilot tested ozone sparge injection as a possible groundwater remedy for the site.

2019  The SVE system operated until June and removed approximately 540 pounds of PCE from soil under the Missouri Falls building. The ozone sparge system ran until July. ADEQ released the site’s FS report in October.

2020  ADEQ released the PRAP in March for public comment. In July, ADEQ expanded the ozone sparge system and began initial operations.
16th Street and Camelback

1994  In January, ADEQ signed a Consent Decree with Bank One, the property owner. Bank One paid a settlement to ADEQ to investigate and remediate the site; ADEQ installed six monitoring wells to begin the PI.

1995  ADEQ conducted a soil vapor survey at the site. PCE concentrations detected in soil ranged from 1.3 to 2.3 µg/L.

1996  ADEQ installed four additional permanent groundwater monitoring wells and four temporary groundwater well points.

1999  ADEQ added the site to the WQARF Registry in April, with an E&E score of 23 out of 120.

2002  In May, ADEQ began an ERA evaluation to determine if a combination of SVE and air sparging could control and remediate the PCE groundwater contamination.

2003  After pilot testing an SVE/air sparge system, ADEQ determined the system was not a feasible remedy for the site.

2004–2005  In January, ADEQ installed an additional monitoring well on the southwest corner of 16th Street and Camelback Road to define the downgradient extent of PCE contamination. Groundwater monitoring continued.

2006  ADEQ installed a monitoring well to collect contamination data from the source area of the southern plume. In the southern groundwater plume, 1,2-dichloroethane (1,2-DCA) was detected at 7 µg/L. Groundwater sampling detected PCE concentrations as high as 89 µg/L in the northern plume.

2007  Groundwater monitoring of the northern and southern groundwater plumes detected PCE and 1,2-DCA as high as 24 µg/L and 3.4 µg/L, respectively.

2008  ADEQ continued to sample the northern and southern groundwater plumes.

2009–2012  Due to funding limitations, ADEQ suspended site activities.
ADEQ began installing two groundwater monitoring wells to better define the downgradient extent of PCE contamination in the northern plume. Groundwater monitoring in May detected PCE at 31.9 μg/L. Concentrations of 1,2-DCA in groundwater remained below the laboratory detection limit.

ADEQ issued the RI/FS scope of work, fact sheet, and Community Involvement Plan. Groundwater sampling detected concentrations of PCE and 1,2-DCA as high as 13.3 μg/L and 0.62 μg/L, respectively.

ADEQ released the Draft RI and solicited remedial objectives from the public. ADEQ completed the Final RI in May. The FS was released in July. Groundwater monitoring results indicated decreasing contaminant concentrations.

In April, ADEQ conducted an ERD injection to determine if it could accelerate MNA cost effectively. ADEQ released the PRAP for public comment in July.

ADEQ finalized the ROD and completed an additional round of ERD injections.

ADEQ completed two additional rounds of ERD injections to accelerate the MNA at the site. Due to decreasing groundwater levels, ADEQ replaced two monitoring wells.

ADEQ completed two additional rounds of ERD injections, along with groundwater sampling in April.

ADEQ conducted groundwater sampling in March to monitor the performance of ERD injections and MNA remedy. Groundwater sampling detected PCE concentrations as high as 10.4 μg/L.
**Central and Camelback**

1950s–2006  Several dry cleaners operated on Central Avenue, north and south of Camelback Road. Maroney’s Cleaners and Laundry, located at 4902 North Central Avenue, operated until 2006. ADEQ later identified Maroney’s as the facility that contributed to the release of COCs to the site groundwater and soil.

1999  ADEQ added the Southwest Corner Source Area (SCSA) portion of the site to the WQARF Registry after detecting PCE concentrations in groundwater as high as 20,000 µg/L. The E&E score was 31 out of 120.

2000  In June, ADEQ expanded the Central and Camelback WQARF boundaries, with a new E&E score of 32.

2001  As an ERA, ADEQ installed four groundwater extraction wells to remediate groundwater beneath the SCSA and contain the plume’s migration.

2003  A groundwater treatment system began operating at 21 West Camelback Road. The system removed VOCs using granular activated carbon (GAC) filters. The system discharged treated water into the SRP Grand Canal or City of Phoenix sanitary sewer. ADEQ also installed 11 groundwater monitoring wells to determine the extent of the PCE plume.

2004  As part of an ERA evaluation, ADEQ installed four nested soil vapor extraction wells and groundwater monitoring wells at the former Maroney’s facility.

2005  ADEQ pilot tested SVE as an ERA to remediate subsurface soil contamination at the former Maroney’s facility.

2006  Two new wells were drilled at Medlock Drive and Orange Street to delineate the northern portion of the PCE groundwater plume.

2007  ADEQ began the RI, drilled three new monitoring wells, and began operating the SVE system as an ERA. The SVE system utilized GAC to treat contaminated soil vapor.

2008  ADEQ detected increasing levels of PCE in monitoring wells on East Orange Drive and in wells at 5201 North Central Avenue.

2009  At the end of June, the SVE operational schedule changed to monitor the “rebound” of soil-vapor contamination in the site’s subsurface.
Central and Camelback (continued)

2010–2011 The groundwater treatment system shut down throughout the year due to SRP canal repairs and budget constraints. The SVE system operated intermittently. ADEQ installed nested soil-vapor extraction wells as part of a soil-gas investigation.

2012 The SCSA groundwater treatment system operated continuously until June. ADEQ pilot tested extraction from the newly installed SVE well, which was later connected to the existing SVE system.

2013 ADEQ conducted a passive soil-gas survey on Central Avenue, north of Camelback Road, to investigate possible PCE releases that contributed to the area’s groundwater plume. To better define the plume’s extent, ADEQ also installed two groundwater monitoring wells north of Camelback Road.

2014 ADEQ released the RI and Remedial Objectives Reports. ADEQ investigated potential sources of groundwater contamination through a sewer line and soil investigation near the northern portion of the PCE plume.

2015 ADEQ completed the FS Work Plan and FS.

2016 The groundwater treatment system and SVE system continued to operate full-time. Groundwater samples indicated reduced concentrations of the site’s COCs. A soil vapor survey at the former Maroney’s property indicated that lowered concentration of COCs in soil vapor warranted rebound testing.

2017 ADEQ released the site’s PRAP in June. ADEQ stopped the groundwater treatment system to pilot test in-situ bioremediation injections. The SVE system shut down for rebound sampling.

2018 ADEQ installed three double-nested soil vapor probe and performed soil vapor rebound sampling. ADEQ installed three additional groundwater monitoring wells as part of continued monitoring. The SCSA groundwater treatment and SVE systems remained offline.

2019 ADEQ installed two new groundwater monitoring wells, along with conducting an aquifer step test. Semiannual groundwater monitoring was conducted in spring and fall. ADEQ also conducted soil vapor rebound sampling. The groundwater treatment and SVE systems remained offline.

2020 ADEQ re-started the SVE system on an intermittent schedule; soil vapor rebound sampling was performed according to the SVE operation schedule. Groundwater monitoring was conducted. The groundwater treatment system remained offline.
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## Appendix B – Targeted Communities

### A. Neighborhood Associations

The following presents registered neighborhood associations and their points of contact in the Central Phoenix Water Quality Assurance Revolving Fund (WQARF) sites Community Involvement Areas (CIAs).¹

#### 7th Avenue and Bethany Home Road

<table>
<thead>
<tr>
<th>Neighborhood Association</th>
<th>Contact Person</th>
<th>Phone Number</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desert Horizon Precinct Block Watch²</td>
<td>AJ Marsden</td>
<td>(602) 234-2567</td>
<td><a href="mailto:Ajstillinaz@gmail.com">Ajstillinaz@gmail.com</a></td>
</tr>
<tr>
<td>Mountain View Precinct Phoenix Neighborhood Patrol²</td>
<td>Rick Sain</td>
<td>No phone number provided</td>
<td><a href="mailto:usshornet@msn.com">usshornet@msn.com</a></td>
</tr>
<tr>
<td>North Central Phoenix Neighborhood Association⁴</td>
<td>Mary Crozier</td>
<td>No phone number provided</td>
<td><a href="mailto:marycrz@cox.net">marycrz@cox.net</a></td>
</tr>
<tr>
<td>North Central Phoenix Homeowners Association</td>
<td></td>
<td>No phone number provided</td>
<td><a href="mailto:info@ncpha.org">info@ncpha.org</a></td>
</tr>
<tr>
<td>Rancho Solano Water Improvement District</td>
<td>Tim Sprague</td>
<td>No phone number provided</td>
<td><a href="mailto:tsprague@habitatmetro.com">tsprague@habitatmetro.com</a></td>
</tr>
<tr>
<td>Sun View Estates #1 Property Owners Association</td>
<td>Rachel Milne</td>
<td>No phone number provided</td>
<td><a href="mailto:Sunview.estates@gmail.com">Sunview.estates@gmail.com</a></td>
</tr>
</tbody>
</table>

---

² Encompasses all four Central Phoenix WQARF sites CIAs.
³ Encompasses the 7th Avenue and Bethany Home Road and Central and Camelback CIAs.
⁴ Encompasses the 7th Avenue and Bethany Home Road, 7th Street and Missouri Avenue, and Central and Camelback CIAs.
7th Street and Missouri Avenue

Marlen Grove
Trish Bigler

Montebello Walk Neighborhood Association
Debra Jobin

Uptown Business Coalition^5
Kimberly Lanning

Windsor Square Block Watch^5
Suzanne Dohrer

Windsor Square Special Planning District^5
Ryan Ewing

16th Street and Camelback

Alondra-Mirada Condominium Association
Bryan Anderson

Biltmore Area Partnership
Edward Rossi

Camelback Alliance of Neighborhoods for Development Oversight (CAN DO)
Peter Drake

Canal North Neighborhood Association
Leatrice Kitchell

Coalition of East Phoenix
Deborah Cookson

---

^5 Encompasses the 7th Street and Missouri Avenue and Central and Camelback WQARF sites.
16th Street and Camelback (continued)

North 13th Place Neighborhood Association
Mark Vinci
(602) 264-8148
mvinci@cox.net

Phoenix Communities United⁶
Michael Angulo
No phone number provided
michaelangulo@mac.com

Phoenix Community Alliance⁶
Jon Brodsky
(602) 682-6612
jbrodsky@dtphx.org

Central and Camelback

Brophy Concerned Neighbors Association
Sam Sprague
No phone number provided
Sam9@cox.net

Medlock Business Group
Georganne Bryant
No phone number provided
info@francesvintage.com

Medlock Place Historic Neighborhood Association
Ellen Bilbrey
No phone number provided
EllenBilbrey2011@gmail.com

Pierson Place Historic District Neighborhood Association
Charles Jones
(602) 279-6250
piersonplace@cox.net

St. Francis District Neighborhood Association
Vicki Guffey, 314 E Pierson Street, Phoenix, AZ 85012
No phone number provided
No email address provided

⁶ Encompasses the 16th Street and Camelback and Central and Camelback WQARF sites.
B. Community Schools

The following list presents the community schools in the Central Phoenix WQARF sites CIAs. Central Phoenix WQARF sites CIAs include the Phoenix Unified School District. No community schools are located within the 16th Street and Camelback WQARF site CIA.

7th Avenue and Bethany Home Road

Montessori Children’s House
516 W. Bethany Home Road, Phoenix, AZ 85013
(602) 264-0096

All Saints Episcopal Day School
6300 N Central Avenue, Phoenix, AZ 85012
(602) 274-4866

Madison Meadows Middle School
225 W. Ocotillo Road, Phoenix, AZ 85013
(602) 664-7600

7th Street And Missouri

Madison Rose Lane Elementary
1155 E. Rose Lane, Phoenix, AZ 85014
(602) 664-7400

Central and Camelback

Brophy College Preparatory
4701 N. Central Avenue, Phoenix, AZ 85012
(602) 264-5291

Saint Francis Xavier School
4715 N. Central Avenue, Phoenix, AZ 85012
(602) 266-5364

Xavier College Preparatory
4710 N. 5th Street, Phoenix, AZ 85012
(602) 277-3772

Central High School
4525 N. Central Avenue, Phoenix, AZ 85012
(602) 764-7500

Phoenix Coding Academy
4445 N. Central Avenue, Phoenix, AZ 85012
(602) 764-5700
C. Vulnerable Population Centers

The following list presents vulnerable population centers, including child care and assisted living facilities, in the Central Phoenix WQARF sites CIAs. No vulnerable population centers were located within the 16th Street and Camelback WQARF site CIA.

7th Avenue and Bethany Home Road

Marian Adult Care Home
1002 W. Rose Lane, Phoenix, AZ 85013 (602) 433-9102

Stella Lane Adult Care Home
531 W. Stella Lane, Phoenix, AZ 85013 (602) 441-4696

7th Street and Missouri Avenue

Constant Care Assisted Living, North Central
5247 N. 6th Street, Phoenix, AZ 85012 (602) 803-5642

Kids Central
624 E. Missouri Avenue, Phoenix, AZ 85012 (602) 240-6933

Person to Person Assisted Living Care Home
602 E. Missouri Avenue, Phoenix, AZ 85012 (602) 579-6482

Central and Camelback

Razinn Care Campus
37 W. Pasadena Avenue, Phoenix, AZ 85013 (602) 803-9575
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### Appendix C – Local and State Elected Officials

The Community Involvement Areas (CIAs) for the Central Phoenix Water Quality Assurance Revolving Fund (WQARF) sites falls under Phoenix City Council Districts 4, 5, and 6; Maricopa County Supervisorial District 3; and Arizona Legislature Districts 24 and 28.

<table>
<thead>
<tr>
<th>CITY Officials</th>
<th>COUNTY Supervisors</th>
<th>STATE Representatives</th>
<th>STATE Senators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mayor City of Phoenix Kate Gallego (602) 262-7111 <a href="mailto:mayor.gallego@phoenix.gov">mayor.gallego@phoenix.gov</a></td>
<td>County Supervisor District 3 Bill Gates (602) 506-7562 <a href="mailto:district3@mail.maricopa.gov">district3@mail.maricopa.gov</a></td>
<td>Representative District 24 Jennifer Longdon Room #126 (602) 926-3264 <a href="mailto:jlongdon@azleg.gov">jlongdon@azleg.gov</a></td>
<td>Senator District 24 Lela Alston Room # 311 (602) 926-5829 <a href="mailto:lalston@azleg.gov">lalston@azleg.gov</a></td>
</tr>
<tr>
<td>City Manager City of Phoenix Ed Zuercher (602) 262-6941 <a href="mailto:ed.zuercher@phoenix.gov">ed.zuercher@phoenix.gov</a></td>
<td></td>
<td>Representative District 24 Amish Shah Room #123 (602) 926-3280 <a href="mailto:ashah@azleg.gov">ashah@azleg.gov</a></td>
<td>Senator District 28 Christine Marsh</td>
</tr>
<tr>
<td>Council Member District 4 Laura Pastor (602) 262-7447 <a href="mailto:council.district.4@phoenix.gov">council.district.4@phoenix.gov</a></td>
<td></td>
<td>Representative District 28 Kelli Butler Room #124 (602) 926-5156 <a href="mailto:kbutler@azleg.gov">kbutler@azleg.gov</a></td>
<td></td>
</tr>
<tr>
<td>Council Member District 5 Betty Guardado (602) 262-7446 <a href="mailto:council.district.5@phoenix.gov">council.district.5@phoenix.gov</a></td>
<td></td>
<td>Representative District 28 Aaron Lieberman Room #120 (602) 926-3300 <a href="mailto:alieberman@azleg.gov">alieberman@azleg.gov</a></td>
<td></td>
</tr>
<tr>
<td>Council Member District 6 Sal DiCiccio (602) 262-7491 <a href="mailto:council.district.6@phoenix.gov">council.district.6@phoenix.gov</a></td>
<td></td>
<td></td>
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</tr>
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Appendix D – Community Advisory Board Members

The following table presents the Community Advisory Board (CAB) members for the Central Phoenix WQARF sites.

<table>
<thead>
<tr>
<th>Central Phoenix WQARF Sites</th>
<th>CAB Co-Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pam Perry</td>
<td>Chad Johnson</td>
</tr>
<tr>
<td>(602) 279-6250</td>
<td>(480) 329-2920</td>
</tr>
<tr>
<td><a href="mailto:pamperry@cox.net">pamperry@cox.net</a></td>
<td><a href="mailto:chad.johnson@sci-us.com">chad.johnson@sci-us.com</a></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>CAB Members</th>
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</thead>
<tbody>
<tr>
<td>Paul Barquinero</td>
</tr>
<tr>
<td>(602) 677-5050</td>
</tr>
<tr>
<td><a href="mailto:barquinero@aol.com">barquinero@aol.com</a></td>
</tr>
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<tr>
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<tbody>
<tr>
<td>Stan Watts</td>
</tr>
<tr>
<td>(602) 279-7488</td>
</tr>
<tr>
<td><a href="mailto:dwlaw@compuserve.com">dwlaw@compuserve.com</a></td>
</tr>
</tbody>
</table>

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Matthew Newman</td>
</tr>
<tr>
<td>(917) 864-3122</td>
</tr>
<tr>
<td><a href="mailto:Mnewman7771@gmail.com">Mnewman7771@gmail.com</a></td>
</tr>
</tbody>
</table>
Appendix E – Media Outlets

The following list presents Phoenix media outlets that may be used by the public and Community Advisory Board (CAB) members to promote information on the Central Phoenix Water Quality Assurance Revolving Fund (WQARF) sites. The Arizona Business Gazette is the external media outlet that the Arizona Department of Environmental Quality (ADEQ) uses to publish all public notices related to the sites.

A. Newspapers and Magazines

The Arizona Business Gazette
200 E. Van Buren Street, Phoenix, AZ 85004
(602) 444-8000

The Arizona Republic
200 E. Van Buren Street, Phoenix, AZ 85004
(602) 444-8000

La Voz
200 E. Van Buren Street, Phoenix, AZ 85004
(602) 444-3821

North Central News
1645 E Missouri Avenue Suite 450, Phoenix, AZ 85016
(602) 277-2742

B. Radio

Bonneville International Corporation (KMVP-FM, KTAR-FM)
7740 N. 16th Street, Suite 200, Phoenix, AZ 85020
(602) 274-6200

Entercom Communications Corp.
(KMLE, KOOK-FM, KALV-FM)
840 N. Central Avenue, Phoenix, AZ 85014
(602) 452-1000

iHeartMedia
(KESZ, KFYI, KGME, KNIX-FM, KMXP, KTZR, KXEW, KYOT, KZZP)
4686 E. Van Buren Street, Suite 300, Phoenix, AZ 85008
(602) 374-6000

Maricopa County Community College District
(KBAQ, KJZZ)
2323 W. 14th Street, Tempe, AZ 85281
(480) 834-5627

Hubbard Radio Phoenix
(KAZG, KDKB, KDUS, KSLX-FM, KUPD)
1900 W. Carmen Street, Tempe, AZ 85283
(480) 629-8660
B. Radio (Continued)

Riviera Broadcasting Co. (602) 648-9800
(KEXX, KKFR, KMVA, KOAI)
4745 N. 7th Street, Suite 410, Phoenix, AZ 85014

Sierra H. Broadcasting, Inc. (480) 994-9100
(KAJM, KNJR)
1710 E. Indian School Road, Suite 205, Phoenix, AZ 85016

Univision Radio License Corporation (602) 308-7900
(KHOT-FM, KNOV-FM, KKMR, KOMR, KQMR)
4745 N. 7th Street, Suite 140, Phoenix, AZ 85014

C. Television

KAET Channel 8 (PBS) (602) 496-8888
555 N. Central Avenue, Suite 500, Phoenix, AZ 85004

KNXV Channel 15 (ABC) (602) 273-1500
515 N. 44th Street, Phoenix, AZ 85008

KPHO Channel 5 (CBS) (602) 207-3333
5555 North 7th Avenue, Phoenix, AZ 85013

KPNX Channel 12 (NBC) (602) 444-1212
200 E. Van Buren Street, Phoenix, AZ 85004

KSAZ Channel 10 (FOX) (602) 257-1234
511 W. Adams Street, Phoenix, AZ 85003

KTAZ Channel 39 (Telemundo) (602) 648-3900
4625 S. 33rd Place, Phoenix, AZ 85040

KTVW Channel 33 (Univision) (602) 243-3333
6006 S. 30th Street, Phoenix, AZ 85042
Appendix F – Related Agencies and Contact Information

The following list presents additional resources that may be used by the public and Community Advisory Board (CAB) members to address concerns or questions related to the Central Phoenix Water Quality Assurance Revolving Fund (WQARF) sites.

State of Arizona

Arizona Department of Agriculture
1688 W. Adams Street
Phoenix, AZ 85007
Phone: (602) 542-4373

Arizona Department of Health Services
150 N. 18th Avenue
Phoenix, AZ 85007
Phone: (602) 542-1025

Arizona Department of Water Resources Groundwater Permitting and Wells Section
1110 W. Washington, Suite 310
Phoenix, AZ 85007
Phone: (602) 771-8527

City of Phoenix

Housing Department
830 East Jefferson Street
Phoenix, AZ 85034
Phone: (602) 534-1974

Water Services Department
305 W. Washington Street, Suite 200
Phoenix, AZ 85003
Phone: (602) 262-6251

Public Works Department
Garbage and Recycling
200 W. Washington Street, 7th Floor
Phoenix, AZ 85003
Phone: (602) 262-7251
Other

Agency for Toxic Substances and Disease Registry
Western Branch – Region 9
75 Hawthorne Street, Suite 9410, M/S:HHS-1
San Francisco, CA 94105
Phone: (800) 232-4636

Real Estate Seller Disclosures
Arizona Association of Realtors
255 East Osborn Road
Phoenix, AZ 85012
Phone: (602) 248-7787

Salt River Project
Irrigation Customer Service, SSW302
P.O. Box 52149
Phoenix, AZ 85072-2149
Phone: (602) 236-3333
Appendix G – Prospective Purchaser Agreements

The following table presents a list of parties that have requested and received prospective purchaser agreements from the Arizona Department of Environmental Quality (ADEQ) for properties in or around the Central Phoenix Water Quality Assurance Revolving Fund (WQARF) sites. Prospective purchaser agreements have only been requested for the Central and Camelback WQARF site. The table includes purchaser name, property location, the date that public notices for these agreements were issued, and the dates these agreements became effective.

<table>
<thead>
<tr>
<th>Purchaser Name</th>
<th>Property Location</th>
<th>Public Notice Date</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cornerstone at Central &amp; Camelback, LLC; Cornerstone at Central, LLC; Cornerstone at Camelback, LLC; Central &amp; Camelback Edge, LLC; Central &amp; Mariposa, LLC; Cornerstone at Camelback, L.L.C.; and Central &amp; Camelback Edge, L.L.C.</td>
<td>Southwest Corner of Camelback Road and Central Avenue</td>
<td>1/24/2008</td>
<td>3/21/2008</td>
</tr>
<tr>
<td>Outdoor Systems, Inc.</td>
<td>Southwest Corner of Camelback Road and Central Avenue</td>
<td>Unknown</td>
<td>4/15/1998</td>
</tr>
</tbody>
</table>
Appendix H – Settlements

The following table presents a list of parties that have entered into consent decree settlements with the Arizona Department of Environmental Quality (ADEQ) for properties in or around the Central Phoenix Water Quality Assurance Revolving Fund (WQARF) sites. A consent decree settlement was located for both the 7th Avenue and Bethany Home Road and 16th Street and Camelback WQARF sites. The table includes party name, the date the consent decree was signed by the judge, and the date that public notices for these settlements were issued.

<table>
<thead>
<tr>
<th>WQARF Site</th>
<th>Party Name</th>
<th>Public Notice Date</th>
<th>Date Consent Decree Signed by Judge</th>
</tr>
</thead>
<tbody>
<tr>
<td>16th Street and Camelback</td>
<td>Bank One</td>
<td>Unknown</td>
<td>1/1994</td>
</tr>
<tr>
<td>7th Avenue and Bethany Home Road</td>
<td>Bayless Investment &amp; Trading Company</td>
<td>Unknown</td>
<td>4/20/2005</td>
</tr>
<tr>
<td>7th Avenue and Bethany Home Road</td>
<td>SCI AZ. Funeral Services</td>
<td>Unknown</td>
<td>6/28/2016</td>
</tr>
</tbody>
</table>
Acronyms and Glossary of Terms

1,2-Dichloroethane (1,2-DCA): A colorless liquid used as a solvent for plastics, oils and fats, as a degreaser, as a fumigant in insecticide sprays, in halon fire extinguishers, and in cementing of rubber.

Aquifer: An underground rock formation composed of such materials as sand, soil, or gravel, that can store groundwater and supply it to wells and springs. In aquifers, groundwater occurs in sufficient quantities to be used for drinking water, irrigation, and other purposes.

Aquifer Water Quality Standard (AWQS): State of Arizona maximum levels for contaminants that apply to groundwater in aquifers designated for drinking water use. For example, the AWQS for tetrachloroethene (PCE) is 5 micrograms per liter (µg/L).

Arizona Administrative Code (A.A.C.): is where the official rules of the State of Arizona are published. The Code is the official compilation of rules that govern state agencies, boards, and commissions.

Arizona Department of Environmental Quality (ADEQ): ADEQ is the executive agency of the Arizona State Government mandated to enforce and administer the state’s environmental laws and regulations.


Cleanup: Actions taken that deal with a release or threat of a release of hazardous substances that could adversely affect public health and/or the environment. The word “cleanup” is sometimes used interchangeably with the terms remedial action, removal action, response action, remedy, remediation, or corrective action.

Community Advisory Board (CAB): A diverse group of community members interested in or affected by the presence of a Water Quality Assurance Revolving Fund (WQARF) site. By statute, ADEQ is required to form a CAB for each WQARF Registry site where ADEQ is initiating a Remedial Investigation. ADEQ seeks the CAB’s input in the decision-making process and works with them from the onset of the Remedial Investigation/Feasibility Study process until the requirements of the Record of Decision have been fulfilled.

Community Involvement Area (CIA): The mailing area of residences and businesses used in the notification for public meetings and other written notices regarding a site.

Community Involvement Coordinator: The ADEQ employee responsible for ensuring that all statutes and rules related to public involvement and outreach at WQARF sites are upheld and complied with by ADEQ. Community Involvement Coordinators manage and coordinate the work of CABs for WQARF sites.
Community Involvement Plan (CIP): A document that identifies techniques used by ADEQ to communicate effectively with the public during the WQARF process at a specific site. This plan describes the site history, nature and history of community involvement, and concerns expressed during community interviews. In addition, the plan outlines methodologies and timing for continued interaction between the agencies and the public at the site.

Contamination: Any hazardous or regulated substance released into the environment.

Contaminant: Any physical, chemical, biological or radiological substance or matter present in any media at concentrations that may result in adverse effects on air, water or soil. A harmful or hazardous matter introduced into the environment that is not normally found there, or not naturally occurring.

Early Response Action (ERA): Refers to a remedial action performed prior to the final remedy, and often prior to the Remedial Investigation. An ERA addresses current risks to public health, welfare, and the environment; protects or provides a supply of water; addresses sources of contamination; or controls or contains contamination where such actions are expected to reduce the scope or cost of the remedy needed at the site. Also referred to as an interim remedial action.

Feasibility Study (FS): A process to identify a reference remedy and alternative remedies that appear to be capable of achieving the Remedial Objectives for the site. It is often done as part of a two-phase investigation in conjunction with a Remedial Investigation.

Granular Activated Carbon (GAC): Treatment process used to remove dissolved contaminants from water by absorption.

Groundwater: Water located beneath the ground surface in soil pore spaces and in the fractures of geologic formations. A formation of rock or soil is called an aquifer when it can yield a usable quantity of water.

Hazardous Substance: Any material that, because of its quantity, concentration, physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment.

Information Repository: A collection of documents about a specific project. Information on certain WQARF sites may be available at ADEQ offices and libraries throughout the state.

Methyl Tertiary Butyl Ether (MTBE): A colorless liquid that is a derivative of fossil fuels.

Monitoring Wells (Monitor Wells): Wells installed for the purpose of collecting samples such as groundwater and soil vapor. Analytical results from samples are used to characterize the extent of contamination, the direction of groundwater flow, and the types and quantities of contaminants present in the groundwater.

Operation and Maintenance (O&M): 1. Activities conducted after a WQARF site action is completed to ensure that the action is effective. 2. Actions taken after construction to ensure that facilities constructed to treat wastewater will be properly operated and maintained to achieve normative efficiency levels and prescribed effluent limitations in an optimum manner. 3. On-going asbestos management plan in a school or other public building, including regular inspections, various methods of maintaining asbestos in place, and removal when necessary.
**Plume:** A well-defined area of contamination in groundwater, soil or the air, often used to describe the dispersion of contamination in soil and/or groundwater.

**Potentially Responsible Party (PRP):** Those parties (individuals, corporations) identified as potentially liable for cleanup costs at a contaminated site.

**Preliminary Investigation (PI):** The process of collecting and reviewing available information about a known or suspected hazardous waste site or release.

**Proposed Remedial Action Plan (PRAP):** A document that reviews the cleanup alternatives presented in the site FS and identifies ADEQ’s preferred alternative. Selection of a preferred alternative is not a closed-end commitment to use that alternative; rather, it is a way for the agency to indicate, based on experience and expertise, which alternative is the most likely course of action. ADEQ must actively solicit public review of and comment on all the alternatives under consideration.

**Public Comment Period:** A period during which the public can formally review and comment on various documents and ADEQ actions.

**Record of Decision (ROD):** A legal document that announces and explains the cleanup methods ADEQ will use at a WQARF site. The Record of Decision is based on information and technical analysis generated during the Remedial Investigation and Feasibility Study, and on consideration of comments received during the public comment record for the Proposed Remedial Action Plan.

**Remedial Action (RA):** Any action taken to investigate, monitor, assess and evaluate the release or threat of release of hazardous substances or contaminants to the environment. It may also refer to the actual “cleanup” of the environment by various removal, treatment, monitored remediation, or corrective actions. The term “cleanup” is sometimes used interchangeably with the terms remedial action, removal action, response action, remedy, remediation, or corrective action.

**Remedial Investigation (RI):** Establishes the nature and extent of the contamination and the sources; identifies current and potential impacts to public health, welfare, and the environment; identifies current and reasonable foreseeable uses of land and waters of the state; and obtains and evaluates any information necessary for identification and comparison of alternative remedial actions.

**Remedial Objective (RO):** Established remedial goals for the current and reasonably foreseeable uses of lands and waters of the state that have been or are threatened to be affected by a release of hazardous substance.

**Remediation:** Cleanup or other methods used to remove or contain a toxic spill or hazardous materials.

**Remedy:** Cleanup method chosen for a site.

**Responsible Party:** An individual or company (e.g., an owner, operator, transporter, or generator of hazardous waste) that is responsible for the contamination at a WQARF site. Whenever possible, responsible parties are required to clean up hazardous waste sites they have contaminated.

**Responsiveness Summary:** A summary of oral and written comments (and ADEQ responses to those comments) received during the public comment period.
**Soil Vapor Extraction (SVE):** Soil vapor extraction removes contaminant vapors from below ground for treatment above ground. Soil vapor extraction removes vapors from the soil above the water table by applying a vacuum to pull the vapors out. The method is used for chemicals that evaporate easily – such as those found in solvents and gasoline.

**Superfund:** The program operated under the legislative authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) that funds and carries out U.S. Environmental Protection Agency solid waste emergency and long-term removal and remedial activities. These activities include establishing the National Priorities List, investigating sites for inclusion on the list, determining their priority, and conducting and/or supervising cleanup and other remedial actions. It provides for the cleanup of hazardous substances released into the environment, regardless of fault. The term Superfund also is used to refer to cleanup programs designed and conducted under CERCLA and its subsequent amendments.

**Tetrachloroethene or Tetrachloroethylene or Perchloroethene (PCE):** A clear, colorless, liquid with a chloroform or sweet odor and a low boiling point; a solvent used for dry cleaning; degreasing and drying metals and other solids; dissolving waxes, greases, oils, fats, and gums; and in other industrial applications. PCE is a potential occupational carcinogen. Evaporation of PCE increases as temperature increases.

**Trichloroethene or Trichloroethylene (TCE):** A colorless liquid used as a solvent, metal degreasing agent, and in other industrial applications.

**Volatile Organic Compounds (VOC):** A large group of carbon-containing compounds that are easily dissolved into water, soil, or the atmosphere and evaporate readily at room temperature. Examples of VOCs include PCE, TCE, benzene, toluene, ethylbenzene, and xylene. These contaminants are typically generated from metal degreasing, printed circuit board cleaning, gasoline, and wood preserving processes.

**Water Quality Assurance Revolving Fund (WQARF):** Also known as the State Superfund. WQARF is the program and funding that is used to address hazardous substance releases within the state that are not covered by other specific programs.