

## NOTICES OF PUBLIC INFORMATION

Notices of Public Information contain corrections that agencies wish to make to their notices of rulemaking; miscellaneous rulemaking information that does not fit into any other category of notice; and other types of information required by statute to be published in the *Register*. Because of the variety of material that is contained in a Notice of Public Information, the Office of the Secretary of State has not established a specific format for these notices.

*Editor's Note: Under A.R.S. § 49-287.01 the information in the following Notice of Public Information is required to be published annually in the Arizona Administrative Register and in a newspaper of general statewide circulation.*

### NOTICE OF PUBLIC INFORMATION

#### Arizona Department of Environmental Quality

#### The 2002 Water Quality Assurance Revolving Fund Annual Registry

The Arizona Department of Environmental Quality (ADEQ) is pleased to provide this Annual Report on the location, remedial status, and score of the sites on the Water Quality Assurance Revolving Fund (WQARF) Registry as of December 31, 2001. The Registry includes those sites within the state that pose risk to public health, welfare, or the environment from the release of hazardous substances and for which there is current or planned investigation and cleanup. There are 33 sites on the WQARF Registry: 19 in Maricopa County, eight in Pima County, three in Gila County, one in Graham County, one in La Paz County, and one in Yuma County.

Sites on the Registry are scored based in part upon the type of contamination present, the location of the contamination, and the number of people that may be affected. Scores are used to help determine relative risk at the site and do not necessarily mean that there is direct exposure of contaminants to humans. Whether the site is currently in remediation or in remediation planning, the agency takes steps to identify the contamination and to prevent exposure.

Additional information regarding these sites is available on ADEQ's web site at <http://www.adeq.state.az.us/environ/waste/index.html>. The information is also available in the Superfund Programs Section Information Booklet which may be obtained at 3033 N. Central Avenue, Phoenix, or by calling (602) 207-2202 or toll free in Arizona at 1(800) 234-5677, Ext. 2202. Information about Registry sites, meetings, contact information, and other elements of the WQARF Program can also be accessed at the ADEQ's Superfund Information Line at (602) 207-4360, or toll free in Arizona at 1(800) 234-5677, Ext. 4360.

**7th Street and Arizona Avenue** - This site was placed on the WQARF Registry in April 2000, and has a score of 40 out of a possible 120. The site is located in Tucson, approximately 1/3 mile north of Broadway Boulevard and approximately 3/4 mile east of Interstate 10. The site boundary is a northwest-trending oval extending approximately 1,200 feet from the former Oliver's Cleaners facility at 300 E. Seventh Street to approximately 150 feet north of Sixth Street and approximately 100 feet east of Seventh Avenue.

Groundwater in the 7th Street and Arizona Avenue site has been impacted by tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE) at concentrations exceeding the Arizona Aquifer Water Quality Standards. No drinking water wells have been impacted by the contamination from the site.

**16th Street and Camelback Road** - This site was placed on the WQARF Registry in April 1999, and has a score of 23 out of a possible 120. The site is approximately bounded by Medlock Drive to the north, Highland Avenue to the south, 17th Street to the east, and 14th Place to the west.

The site is divided into a northern and southern portion. The contaminants of concern at the northern portion of the site include tetrachloroethene (PCE) and those at the southern portion of the site include 1,2-dichloropropane and 1,2-dichloroethane (1,2-DCA). ADEQ is currently conducting an early response action evaluation.

**20th Street and Factor Avenue** - This site was placed on the WQARF Registry in March 2000, and has a score of 31 out of a possible 120. The site is located approximately 1/2 mile south of 16th Street and approximately 3/4 mile east of Fourth Avenue in Yuma. The site boundary is a northwest-trending oval extending approximately 1,000 feet from the Houston International facility at 655 E. 20th Street on the southeast to 19th Street and Rail Avenue on the northwest.

Groundwater in the 20th Street and Factor Avenue site has been impacted by tetrachloroethene (PCE) and cyanide. ADEQ is conducting investigations to determine whether an early response action is appropriate for this site.

**Broadway Pantano** - This site was placed on the WQARF Registry in September 1998, and has a score of 57 out of a possible 120. The site is located in the east-central part of Tucson and is bounded approximately by Speedway Boulevard to the north, Pantano Wash to the east, Broadway Boulevard to the south, and Wilmot Road to the west.

Groundwater is approximately 325 feet below the ground surface and is contaminated with tetrachloroethene (PCE), trichloroethene (TCE) and vinyl chloride. The contaminated groundwater is migrating to the west and has already resulted in the closing of four Tucson Water production wells. The major source of the groundwater contamination is the Broadway North Landfill. The City of Tucson and Pima County have installed a soil vapor extraction system to remove and treat contaminated landfill gases which have been determined to be contributing to the groundwater contamination. A community advisory board has been established for this site.

**Central and Camelback** - This site was placed on the WQARF Registry in June 2000, and has a score of 32 out of a possible 120. The site is located at the southwest corner of Central Avenue and Camelback Road. The boundaries of the site are approximately Missouri Avenue to the north, a line 100 feet east of Central Avenue to the east, Pierson Street to the south and a line 600 feet west of Camelback road to the west.

The contaminants of concern in groundwater at the site are tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethene (DCE), 1,2-dichloroethane (DCA), vinyl chloride and chloroform. There is an underground parking structure near the site, the lower level of which is below the water table. The contaminated groundwater currently threatens the underground parking structure. ADEQ has designed a groundwater treatment system to remediate and control the migration of contaminated groundwater at the site. A community advisory board has been established for this site.

**East Central Phoenix (ECP) 24th Street and Grand Canal** - This site was placed on the WQARF Registry in May 2000, and has a score of 29 out of a possible 120. The current site boundary is a 400 foot diameter circle centered around SRP well 16E-6.8N. Tetrachloroethene (PCE) has been detected in groundwater samples collected by SRP from well 16E-6.8N.

**ECP 32nd Street and Indian School Road** - This site was placed on the WQARF Registry in May 2000, and has a score of 29 out of a possible 120. The current site boundary is a 400 foot diameter circle centered around SRP well 17E-8N. Tetrachloroethene (PCE) has been detected in groundwater beneath the site.

**ECP 38th Street and Indian School Road** - This site was placed on the WQARF Registry in September 1998, and has a score of 25 out of a possible 120. The approximate site boundaries are Indian School Road on the north, 38th Street to the east, Amelia Avenue to the south, and 36th Street to the west. Tetrachloroethene (PCE) has been detected in groundwater beneath the site.

**ECP 40th Street and Indian School Road** - This site was placed on the WQARF Registry in September 1998, and has a score of 25 out of a possible 120. The approximate site boundaries are Devonshire Avenue on the north, 40th Street to the east, Amelia Avenue to the south, and 38th Street to the west. Tetrachloroethene (PCE) and trichloroethene (TCE) has been detected in groundwater beneath the site.

**ECP 40th Street and Osborn Road** - This site was placed on the WQARF Registry in May 2000, and has a score of 30 out of a possible 120. The current site boundary is an 800 foot diameter circle centered around SRP well 17.9E-7.5N. Tetrachloroethene (PCE) has been detected in groundwater samples collected by SRP from well 17.9E-7.5N.

**ECP 48th Street and Indian School Road** - This site was placed on the WQARF Registry in March 1999, and has a score of 32 out of a possible 120. The site extends approximately 400 feet north and 160 feet south of Indian School Road in between 45th Place and 48th Street. Tetrachloroethene (PCE) has been detected in groundwater beneath the site. ADEQ and SRP have entered into an agreement to conduct a source control interim remedial action.

**East Washington Fluff** - This site was placed on the WQARF Registry in June 1999, and has a score of 34 out of a possible 120. The site is located at 433 E. Buckeye Road and is ten acres in size. The site has been abandoned for approximately 15 years, and contains significant quantities of auto shredder fluff co-mingled with native soils. Contaminants which exist at the site are lead, cadmium and PCBs, a substance historically used as an insulator in electronic components. An early response action consisting of removal of fluff piles and installation of a protective cap to prevent exposure to contaminants was completed in September 2001. A remedial investigation has been initiated and field activities have been completed. A community advisory board has been established for this site.

**El Camino del Cerro** - This site was placed on the WQARF Registry in August 1998, and has a score of 71 out of a possible 120. The site is located in northwest Tucson and is approximately bounded by the Rillito River to the north, El Camino del Cerro Road to the south, Shannon Road to the east, and the Santa Cruz River to the west. A former landfill occupies approximately 20 acres in the southwest portion of the site area.

ADEQ is currently conducting a remedial investigation/feasibility study at the site. Contaminants of concern include tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethene (DCE) and vinyl chloride. ADEQ is currently conducting an early response action on a portion of the site. A soil vapor extraction system was installed by Pima County in the El Camino del Cerro Landfill and is in operation. A community advisory board has been established for this site in conjunction with the Shannon Road-Rillito Creek site.

**Estes Landfill** - This site was placed on the WQARF Registry in April 1998, and has a score of 50 out of a possible 120. The site is located south of Sky Harbor Airport and is bounded approximately by the Salt River to the north, Magnolia Street to the south, State Route 153 to the east, and 40th Street to the west.

The contaminants of concern for groundwater include vinyl chloride, cis-1,2-dichloroethene (DCE), trichloroethene (TCE), benzene, bis(2-ethylhexyl)phthalate, arsenic barium, chromium, manganese, nitrate as N, and lead; for soil include lead arsenic and thallium. Groundwater beneath the landfill contains vinyl chloride and DCE and TCE at levels exceeding Aquifer Water Quality Standards. Groundwater contamination from the landfill extends approximately ½ mile to the northwest of the landfill. Site investigation and groundwater monitoring activities are conducted by ADEQ. The Remedial Investigation and Remedial Objectives Reports were finalized in January 2002, and the feasibility study is currently being conducted. A community advisory board has been established for this site.

**Klondyke Tailings** - This site was placed on the WQARF Registry in September 1998, and has a score of 69 out of a possible 120. The site is located on the north bank of the Aravaipa Creek, approximately 4.5 miles upstream of the Aravaipa Canyon Wilderness Area in the unincorporated town of Klondyke.

The site is comprised of two piles of mine tailings, the soil between and adjacent to these piles, and the area approximately 50 feet into the stream bed of Aravaipa Creek, directly adjacent to the tailings piles. The site is bounded to the east by Klondyke Road. The contaminants include lead, cadmium, and arsenic. A community advisory board has been established for the site.

**Los Reales Landfill** - This site was placed on the WQARF Registry in April 1999, and has a score of 32 out of a possible 120. The site is an active municipal sanitary landfill approximately 376 acres in size located in southeast Tucson and has been in operation since 1967. Groundwater samples taken in August 1988 and January 1989 indicated the presence of volatile organic compounds in two groundwater monitoring wells in the vicinity of Los Reales Road.

In March 1999, the City of Tucson implemented a groundwater pump and treat system at the site. A portion of the treated water is reinjected into the aquifer and a portion is used for dust control at the landfill. In April 1999, the City identified additional contamination at the landfill, and has completed a passive soil gas survey and installed additional monitoring wells. After the full extent of contamination is determined, the groundwater treatment system will be upscaled to manage treatment of additional contaminated water.

**Miracle Mile** - This site was placed on the WQARF Registry in September 1998, and has a score of 62 out of a possible 120. The site is located in Tucson and is approximately bounded by Roger Road to the north, Prince Road to the south, Flowing Wells Road to the east, and Bottletree Lane to the west.

Contaminants of concern at the site include trichloroethene (TCE) and chromium. ADEQ recently installed eight groundwater monitoring wells in the perched and regional aquifers and also completed an interim remedial action requested by Flowing Wells Irrigation District. A community advisory board has been established for this site.

**Park-Euclid** - This site was placed on the WQARF Registry in April 1999, and has a score of 51 out of a possible 120. The site is in Tucson and is approximately bounded by Broadway Boulevard to the north, 14th Street to the south, Santa Rita Avenue to the east, and Euclid Avenue to the west.

Contaminants of concern include diesel fuel and volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), trichloroethene (TCE), and 1,1-dichloroethene (DCE). ADEQ is continuing to define the extent of groundwater contamination and is evaluating early response actions for the perched and regional aquifers. A community advisory board has been established for this site.

**Payson PCE** - This site was placed on the WQARF Registry in April 1998, and has a score of 63 out of a possible 120. The site is bounded approximately by Frontier Street to the north, Aero Drive to the south, Beeline Highway to the east, and McLane Road to the west.

The primary contaminant of concern at the site is tetrachloroethene (PCE) which is in groundwater approximately 60 feet below the ground surface. Successful operation of two groundwater treatment systems began in October 1998 and continues to date. The clean water from these systems is delivered to the Town of Payson. Drinking water is supplied at an approximate rate of 300 gallons per minute. A soil vapor extraction system has been installed and operating since August 2001. Impacted private well owners who are not connected to the Town of Payson's water supply are supplemented with bottled water by ADEQ as a temporary solution. A community advisory board, which also incorporates the Tonto and Cherry site, has been established for this site.

**Pinal Creek** - This site was placed on the WQARF Registry in October 1998, and has a score of 97 out of a possible 120. The site is located in Gila County in and around the communities of Globe and Miami, Claypool and Wheatfields. The site includes the BHP Copper and Phelps Dodge Miami mining properties, and the drainages and underlying aquifers of Miami Wash, Bloody Tanks Wash, Russell Gulch, and Pinal Creek. The site also includes the entire floodplain of Pinal Creek from the Old Dominion Mine to the Salt River, plus those portions of the communities underlain by contaminated groundwater.

Contamination in groundwater consists of heavy metals such as aluminum, iron, manganese, copper, cobalt, nickel, zinc, cadmium, and other contaminants such as sulfate, acidity and dissolved solids. The Pinal Creek Group, which consists of BHP, Phelps Dodge and Inspiration Copper, have been conducting remedial actions including source control since 1988 and have completed remedial investigations, risk assessments, a feasibility study and a recommended remedial action plan. They have also conducted a well replacement program for contaminated private and public supply wells. Localized soil and stream sediment contamination are being investigated; contaminants of concern include arsenic, lead, copper, cadmium, manganese, nickel and zinc.

Construction of a plant to treat contaminated groundwater along lower Pinal Creek to prevent further degradation of surface water quality was completed in December 1999. The treated water is released back into Pinal Creek. The discharge to Pinal Creek meets all applicable Arizona Surface Water Quality Standards. A cutoff wall to contain contaminated groundwater was completed in Lower Pinal Creek in January 2001. The entire flow of groundwater in the alluvial aquifer is captured and treated. A second groundwater containment and treatment system were completed in 2001 to capture and treat groundwater in Kiser Basin. Remedial designs for capping mine tailings and waste rock at the Old Dominion Mine have been developed and are under review. Source control plans for the Phelps Dodge and BHP facilities have been submitted and are under review.

**Shannon Road-Rillito Creek** - This site was placed on the WQARF Registry in April 1999, and has a score of 53 out of a possible 120. The site is located in northwest Tucson and extends approximately 1/4 mile to the north and south of Rillito Creek, and is approximately bounded by Meadowbrook Park to the east and Peglar Wash Park to the west.

The site consists of a groundwater plume in which tetrachloroethene (PCE), trichloroethene (TCE), and dichloroethene (DCE) are the primary contaminants of concern. The contaminant plume has impacted three community wells. Two of these wells have been shut down and the other has a wellhead treatment system installed which removes contaminants in the groundwater in order to meet drinking water standards. ADEQ is conducting a remedial investigation/feasibility study at the site to help determine the source(s) and extent of contamination. A community advisory board, which also incorporates the El Camino del Cerro site, has been established for this site.

**Silverbell Jail Annex Landfill** - This site was placed on the WQARF Registry in April 1999, and has a score of 51 out of a possible 120. The site is located in Tucson at 3200 North Silverbell Road in northwest Tucson. The site is bounded approximately by Sweetwater Drive on the north, Grant Road/Ironwood Hill Drive on the south, Interstate 10 on the east, and Silverbell Road on the west, and is comprised of approximately 40 acres. The southern portion of the landfill has been covered with soil. The northern portion of the landfill has been covered and re-vegetated and now underlies the Silverbell Golf Course.

In 1995, the City of Tucson proposed and ADEQ approved a pump and treat system to extract and clean up groundwater. A pilot study to evaluate the effectiveness of recirculation technology to replace or enhance the approved pump and treat system was implemented and concluded that the technology would not be an effective remedy for the site. The City is currently evaluating alternative methods for groundwater remediation at the landfill, which will be subject to ADEQ approval and public comment.

**South Mesa** - This site was placed on the WQARF Registry in August 1998, and has a score of 31 out of a possible 120. The site is located in Mesa and Gilbert and is bounded approximately by Tenth Avenue to the north, the railroad south of Baseline Road to the south, Stapley Road to the east, and the railroad west of Center Street to the west.

The contaminants of concern at the site are tetrachloroethene (PCE), chromium, nickel, and manganese in groundwater which are present in the groundwater approximately 110-130 feet below the ground surface. Two remedial action projects at the site have significantly reduced the contamination by treating pumped groundwater and extracting vapors from the soil. The

remaining contamination is being monitored quarterly. A remedial investigation/feasibility study is currently being conducted. A community advisory board has been established for this site.

**Tonto and Cherry** - This site was placed on the WQARF Registry in June 2000, and has a score of 45 out of a possible 120. The site is located in Payson, approximately 400 feet west of the Beeline Highway and immediately north of Main Street. The site boundary is a northwest-trending oval, extending approximately 1,200 feet from the intersection of Main Street and Colcord Avenue.

Groundwater at the site has been impacted by tetrachloroethene (PCE). PCE has been detected in five private drinking water wells at the site. The PCE concentrations in three private wells at the site exceed the Maximum Contaminant Level (MCL) of five micrograms per liter (Fg/l), and drinking water from these private wells poses a threat to public health. Bottled drinking water is being provided to these private well owners as a temporary solution. Four groundwater monitoring wells have been installed to assist in defining the contaminant plume. A community advisory board has been established for this site in conjunction with the Payson PCE site.

**Tyson Wash** - This site was placed on the WQARF Registry in December 1998, and has a score of 46 out of a possible 120. The site is located in the Town of Quartzsite and has boundaries approximately 300 feet to the north of Cowell Lane to the north, 400 feet east of Washington Boulevard to the east, 300 feet south of Cowell Lane to the south, and 200 feet west of Oregon Avenue to the west.

Tetrachloroethene (PCE) in concentrations above the Aquifer Water Quality Standard for PCE of five micrograms per liter is present in the groundwater approximately 40-70 feet below the ground surface. Trichloroethene (TCE) is also present. A draft Remedial Investigation Report and Land and Water Use Study was completed in October 2001. ADEQ is supplying bottled water to owners of contaminated wells. A community advisory board has been established for this site.

**Vulture Mill** - This site was placed on the WQARF Registry in April 1998, and has a score of 65 out of a possible 120. The site is located just east of U.S. Route 89/93 about one mile northwest of the center of the Town of Wickenburg. The eastern boundary of the site is approximately 1/4 mile west of the Hassayampa River Channel.

The contaminants of concern at the site are lead, arsenic and mercury. The selected remedy for the site includes excavation of tailings and contaminated soil, placement in a consolidation pile, installation of a clean soil cover, backfilling with clean soil, and groundwater monitoring and institutional controls for installation of new wells. The amended final design will be completed in February 2002. A community advisory board has been established for this site.

**West Central Phoenix (WCP) East Grand Avenue** - This site was placed on the WQARF Registry in April 1998, and has a score of 31 out of 120. The site is approximately bounded by Whitton Avenue to the north, Osborn Road to the south, 29th Avenue to the east, and 30th Avenue to the west.

Primary contaminants of concern at the site include tetrachloroethene (PCE) and trichloroethene (TCE) in groundwater. The field investigative activities were completed in December 2001. Ongoing groundwater monitoring continues. The draft Remedial Investigation (RI) Report is expected to be issued during the spring of 2002. Negotiations are underway for a potentially responsible party (PRP) to take over the feasibility study and groundwater modeling. A community advisory board has been established for this site.

**WCP North Canal Plume** - This site was placed on the WQARF Registry in June 1998, and has a score of 27 out of a possible 120. The approximate boundaries of this site are Indian School Road on the north, 36th Avenue on the east, Clarendon Avenue on the south, and 40th Avenue on the west.

Primary contaminants of concern at the site include tetrachloroethene (PCE), trichloroethene (TCE) and chromium in groundwater. The field activities were initiated in February 2001. To date, ADEQ has installed eight monitor wells. A community advisory board has been established for this site.

**WCP North Plume** - This site was placed on the WQARF Registry in April 1998, and has a score of 55 out of a possible 120. The site is approximately bounded by Turney Avenue to the north, Indian School Road to the south, 38th Avenue to the east, and 43rd Avenue to the west.

Primary contaminants of concern at the site include tetrachloroethene (PCE) and trichloroethene (TCE) in groundwater. The draft Remedial Investigation (RI) Report is expected to be issued during the spring of 2002 for one of the facilities under investigation. A soil vapor extraction system (SVE) was installed at one facility, with an estimated amount of PCE removed during calendar year 2001 of 37,000 lbs. A community advisory board has been established for this site.

**WCP West Grand Avenue** - This site was placed on the WQARF Registry in April 1998, and has a score of 22 out of a possible 120. The site is approximately bounded by Osborn Road to the north, Earll Drive to the south, 33rd Avenue to the east, and 35th Avenue to the west.

Primary contaminant of concern at the site includes trichloroethene (TCE) in groundwater. ADEQ is currently evaluating a no further action (NFA) Request submitted for soil and groundwater by a facility. ADEQ is conducting the investigation (soil, soil-gas, groundwater sampling) to collect the necessary data for the NFA determination. As part of the NFA evaluation, ADEQ will also conduct an SVE rebound test. A community advisory board has been established for this site.

**WCP West Osborn Complex** - This site was placed on the WQARF Registry in August 1998, and has a score of 52 out of a possible 120. The site is approximately bounded by the Grand Canal to the north, Pinchot Avenue to the south, 34th Drive to the east, and 39th Drive to the west.

Trichloroethene (TCE) and tetrachloroethene (PCE) in concentrations above Aquifer Water Quality Standards are present in the groundwater of the shallow aquifer (100-140 feet deep) and in the deeper sand and gravel aquifer (282-390 feet deep). A remedial investigation/feasibility study is currently being conducted. In April 1999, the working party installed a soil vapor extraction (SVE) system which is currently operational. A community advisory board has been established for this site.

**West Van Buren** - This site was placed on the WQARF Registry in April 1998, and has a score of 50 out of a possible 120. The site is approximately bounded by Van Buren Street to the north, Buckeye Road to the south, Seventh Avenue to the east, and 83rd Avenue to the west. Between Seventh Avenue and 27th Avenue, there is an extension of the plume south to Lower Buckeye Road.

Contaminants of concern at the site include tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethene (DCE), chromium, and benzene. The contamination is present in shallow and deeper aquifers.

A groundwater flow model has been completed. Semi-annual groundwater elevation data and groundwater concentration data are being collected. A soil and groundwater treatment system began operation in March 2001 at the former American Linen Supply Company facility to clean up soil and groundwater contamination. Additional monitoring wells have been installed by ADEQ to delineate the extent of the contamination and further investigate potential source areas. A soil vapor extraction and air sparging system is currently operating at the Dolphin facility. As of January 2002, 40 million gallons of water have been treated and 900 pounds of contaminants have been removed from the soil. A community advisory board has been established for this site.

**Western Avenue Plume** - This site was placed on the WQARF Registry in December 1998, and has a score of 51 out of a possible 120. The site is located in Avondale and Goodyear and is approximately bounded by Hill Drive to the north, Third Street to the east, and Litchfield Road to the west; the southern boundary proceeds on a southwesterly angle approximately 1000 feet north of State Route 85 until it reaches the western boundary just north of the entrance to the Phoenix-Goodyear Airport.

The primary contaminant of concern is tetrachloroethene (PCE) which is present in the portion of the groundwater approximately 60-110 feet below the ground surface. ADEQ installed five monitoring wells in November 2000 as part of an early response action. These wells will assist ADEQ in monitoring the on-going remedial action at the Phoenix-Goodyear Airport Superfund site involving treatment of PCE from the Western Avenue plume. A remedial investigation is underway. A community advisory group has been established for this site in conjunction with the Phoenix-Goodyear Airport Superfund site.