

7th Street and Arizona Avenue

Water Quality Assurance Revolving Fund ([WQARF](#)) Site

Boundaries:

The [7th Street and Arizona Avenue Site](#) (Site) is located in downtown Tucson, north of Broadway Boulevard and east of Interstate 10, and is bounded approximately by Speedway Boulevard to the north, 4th Avenue to the east, 8th Street and the railroad to the south, and Ash Avenue to the west.

Site Status Update:

Through March 2008, approximately 752 pounds of [volatile organic compounds](#) (VOCs) have been removed by a [soil vapor extraction \(SVE\)](#) system.

Community Involvement Activities:

The Arizona Department of Environmental Quality ([ADEQ](#)) distributes fact sheets and public notices to the nearby community when significant events occur. The most recent [fact sheet](#) for the 7th Street and Arizona Avenue WQARF Site can be found on the ADEQ Web site.

Site History:

1957-1989: From approximately 1957 to 1989, dry cleaning businesses were located on the property at 300 E. 7th Street. The building was destroyed by fire in 1989 and now the property is vacant and used for parking. [Tetrachloroethene](#) (PCE) for the dry cleaning process was stored in [underground storage tanks \(USTs\)](#).

1991: Seven USTs, five solvent and two heating and waste oil tanks, were removed from the property.

1992: An assessment of site soils and groundwater was conducted. Soils near the heating and waste oil tanks were found to contain [petroleum hydrocarbons](#). Analysis of a groundwater sample from a water supply well on the Site revealed the presence of PCE and [trichloroethene](#) (TCE) in the regional [aquifer](#) underlying the Site.

2000: On April 27, 2000, the Site was placed on the [WQARF Registry](#) with an eligibility and evaluation (E&E) score of 40 out of a possible 120.



**Groundwater Monitor Well Being Installed
near Historic Dry Cleaners**

2003: In July, a report of the findings and recommendations for a potential [early response action](#) (ERA) under WQARF was completed. Investigations showed that while a release of PCE, and possibly TCE, had occurred at the property at 300 E. 7th Street, there appeared to be no route for human exposure.

2005: From January through May, ADEQ conducted two groundwater monitoring events. Elevated concentrations of PCE and TCE existed in the surrounding perched groundwater [monitor wells](#). No contaminants were detected above regulatory standards in the regional aquifer.

2006: In June, ADEQ began operating a SVE system at the former Oliver's Cleaners, 300 E. 7th Street. The SVE system was estimated to operate for approximately two years.

2007: In February, five additional wells were installed to further investigate the boundary of PCE and TCE. Two more wells were installed in November. An [air sparging](#) pilot test was conducted in October 2007 to evaluate the feasibility of air sparging as a remedial method.



Sampling at the Site from a Monitor Well

Contaminants:

The current contaminants of concern in groundwater include [tetrachloroethene](#) (PCE), [trichloroethene \(TCE\)](#) and cis-1,2-[dichloroethene](#) (cis-1,2-DCE). Contaminants of concern at the Site may change as new data become available. Currently, there are no known drinking water uses of the perched aquifer. However, if you are drinking water from a private well within the boundaries of the Site, please contact the ADEQ Project Manager.

Public Health Impact:

To ensure that no drinking water wells have been impacted by contamination from the Site, ADEQ completed a drinking water well inventory. The nearest known drinking water wells are in the regional aquifer and are located one-half to one mile northeast of the Site.

Site Hydrogeology:

The Site is located within the Tucson Basin, a northwest trending [alluvial](#) valley covering an area of about 750 square miles in the Santa Cruz River drainage basin of southeastern Arizona. The Site is predominantly fine-grained sands and silts interbedded with fine-grained sediments from ground surface to approximately 80 feet below ground surface (bgs). The interbedded material is underlain by a clay [aquitard](#) approximately 12 feet in thickness, forming a perched aquifer.

Depth to perched water is approximately 65 feet bgs. The regional aquifer is encountered approximately 170 feet bgs. Flow direction in the regional aquifer is to the northeast.

Contacts:

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* In Arizona, but outside the Tucson area, call toll free (888) 271-9302.

Information Repositories:

The complete official site file is located in Phoenix at the ADEQ Central Office at 1110 W. Washington Street; however, select documents are also available in Tucson at the [Southern Regional Office](#) at 400 W. Congress, Suite 433. Files are available for review Monday through Friday from 8:30 a.m. to 4:30 p.m. To arrange for a time to review the site file at the main ADEQ office, please call the ADEQ Records Management Center with 24-hour notice at (602) 771-4380 or (800) 234-5677 (Arizona toll-free). Please call (520) 628-6715 to arrange a file review appointment at the Southern Regional Office.