

# 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, Arizona 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.

The plume geographic boundaries depicted on the [Site map](#) represent the Arizona Department of Environmental Quality's (ADEQ) 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 extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the plume may change in the future as new information becomes available.

### Site Status Update:

In June 2009, the [soil vapor extraction](#) (SVE) system was permanently turned off, and the system was removed from the Site. The SVE system had reached the appropriate cleanup criteria. Through June 2009, approximately 770 pounds of [volatile organic compounds](#) have been removed by the SVE system. Perched well locations were investigated to define the distal limits of the contaminant plume and to determine limits of the [perched aquifer](#).

### Community Involvement Activities:

ADEQ distributes fact sheets and public notices to the nearby community when significant events occur. The most recent [fact sheet](#) for the 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) used in 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.



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

**1992:** An assessment of soil and groundwater beneath the Site 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 score of 40 out of a possible 120.

**2003:** In July, a report of the findings and recommendations for a potential [Early Response Action](#) 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:** ADEQ conducted two groundwater monitoring events which indicated that 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 an SVE system at the former Oliver's Cleaners located at 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 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.

### **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. Currently, there are no known drinking water uses for 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.

### **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

soil beneath the Site consists predominantly of 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 predominantly to the northeast.

**Contacts:**

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

**Information Repository:**

Interested parties can review select Site documents at the [Joel D. Valdez Main Library](#) located at 101 N. Stone Avenue in Tucson, (520) 594-5500.

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.