

# West Central Phoenix (WCP) West Grand Avenue Water Quality Assurance Revolving Fund ([WQARF](#)) Site

## Boundaries:

The WCP West Grand Avenue WQARF Site (Site) plume is bounded approximately by W. Osborn Road to the north, 31st Avenue to the east, Thomas Road to the south and 35th Drive to the west in Phoenix, Arizona.

The plume 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:

ADEQ installed a new groundwater well to sample groundwater levels and quality. The original wells in the project area have become dry due to a decline in the regional groundwater elevation.



Drilling new well at Site

## Community Involvement Activities:

A [community advisory board](#) (CAB) has been formed for the Site. These meetings are open to the public. Details of meeting [agendas](#) and minutes for 2008 and 2009 can be viewed at the ADEQ Web site. The most recent [fact sheet](#) can be found on the ADEQ Web site.

## Site History:

**1967-1990:** The Layke facility is located near 33rd Avenue and Osborn Road. Layke began operations at the facility in 1967. The operations included the manufacturing of various metal parts. [Trichloroethene](#) (TCE) was the primary [solvent](#) used for parts cleaning/degreasing and a vapor degreaser had been used at the facility from 1969 to approximately 1989. Used chemicals were stored in 55-gallon drums in the waste storage area or in an [underground storage tank](#) (UST) prior to disposal. At various times, it appears that the UST overflowed, causing the waste inside the tank to leak out. The UST was removed in October 1990.



UST at Layke Facility

**1982:** [Volatile organic compounds](#) (VOCs) were first detected in groundwater in the WCP area in July 1982. The [City of Phoenix \(COP\)](#) detected TCE in four municipal public supply wells, COP wells #70, #71, #151, and #152.

**1982-1989:** The [Arizona Department of Health Services](#), [Salt River Project](#), and the COP confirmed the presence of VOCs in the groundwater with sampling in 1983, 1985, and 1986. Groundwater from COP Wells #70 and #71 contained the highest concentrations of TCE and, therefore, were immediately shut down. Wells #151 and #152 were monitored for VOC concentrations from 1982 until 1989. As a result of sampling conducted during February of 1989, COP elected to take both wells #151 and #152 off-line on March 7, 1989.

**1987:** The WCP area was designated a WQARF Priority List site.

**1989-2002:** Field investigation activities at the Site were conducted between 1989 and 2002. The investigation indicated that the source of soil and groundwater contamination at the Site is the [Layke Incorporated](#) (Layke) facility.

**1990-1997:** Between 1990 and 1997, an [early response action](#) was conducted by Layke, Inc., the current operator at the Layke Facility. In 1990, Layke excavated a waste oil UST that became contaminated with TCE. Soil samples were collected. After the tank was excavated a [soil vapor extraction](#) (SVE) system was installed and operated from 1995 to 1997.

**1995-2002:** Layke operated a SVE system from March 1995 through June 1998 to remediate the contamination beneath the UST. Between 2001 and 2002, soil samples were collected by ADEQ in the area of the UST to determine the effectiveness of the SVE system in cleaning up the soils. The soil data indicated that the contamination had been effectively remediated by the SVE system. Based on this information, ADEQ granted a No Further Action request in December 2002, pursuant to Arizona Revised Statutes (A.R.S.) §49-287.01.



**SVE System at Layke Facility**

**1997-2000:** In 1997, ADEQ established the WQARF Registry which replaced the Priority List. The Site was placed on the [WQARF Registry](#) in April 1998 with a score of 17 out of a possible 120. The Site score was re-evaluated in 2000 with a revised score of 22.

**2004:** In February, ADEQ issued the Draft [Remedial Investigation](#) (RI) Report for the Site for public comment to meet the requirements established under A.R.S. §49-287.03 and Arizona Administrative Code (A.A.C.) R18-16-406. No comments were received during the 30-day comment period. Since no comments were received on the Draft RI Report, this report will be accepted as the Final RI Report for the Site. ADEQ received a request from Layke in April to permanently shutdown the SVE system. ADEQ granted the request in a letter dated April 21, 2004.

**2005:** In October, ADEQ issued the Proposed [Remedial Objectives](#) (RO) Report for public comment to meet the requirements established under A.A.C. R18-16-406. No comments were received during the 30-day comment period.

**2007:** The ADEQ began the process of finalizing the RO Report and the Final RI Report.

**2008:** A new groundwater [monitor well](#), MW-8, was installed at the Site.

### **Contaminants:**

The current contaminant of concern in groundwater includes the chlorinated solvent [trichloroethene](#) (TCE). Contaminants of concern at the Site may change as new data become available.

### **Public Health Impact:**

To date, testing in the WCP area indicates no exposure to the contamination. Sampling shows that the contaminated soils are under asphalt parking lots or asphalt-surfaced storage areas, or under the concrete floors of buildings. Contaminated drinking water wells in the area have been shut down. In addition, notices have been sent out to all known residences within the WCP area for the testing of domestic wells for contamination.

### **Site Hydrogeology:**

The Site is located within the West Salt River Valley sub-basin of the [Phoenix Active Management Area](#). The Salt River Valley is an [alluvial](#) filled basin located in the Basin and Range physiographic province. The Site is underlain by primarily sandy silts and silty sands with interbedded clay layers and gravelly sand zones.

Due principally to the ongoing drought, depth to groundwater has declined considerably in the past several years. In 1992, the depth to groundwater was approximately 98 feet below ground surface (bgs), and by April 2002, it was approximately 124 feet bgs measured in monitor Well WCP-10. Groundwater levels in Well WCP-10 decreased below the well construction depth of 130 feet bgs before September 2002. As of December 2001 groundwater flowed to the south-southwest beneath the Site at a gradient of approximately 0.003.

The Grand Canal is located along the northern edge of the Site. The Grand Canal is generally lined on the bottom and both sides in the vicinity of the Site. However, some recharge to the [aquifer](#) occurs due to infiltration from the canal.

### **Contacts:**

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\*In Arizona, but outside the Phoenix area, call toll-free at (800) 234-5677.

### **Information Repository:**

Interested parties can review select Site documents at the [Burton Barr Central Library](#) (Arizona Room) located at 1221 N. Central Avenue in Phoenix, (602) 262-4636.

The complete official Site file can be reviewed at the ADEQ Main Office located at 1110 W. Washington Street, Phoenix. With 24-hour notice, an appointment to review related documentation is available Monday through Friday from 8:30 a.m. to 4:30 p.m. at the ADEQ Records Management Center, 1110 W. Washington Street in Phoenix. Please contact (602) 771-4380 or (800) 234-5677 to schedule an appointment to review these documents.