

East Central Phoenix (ECP) 40th Street and Indian School Road Water Quality Assurance Revolving Fund ([WQARF](#)) Site

Boundaries:

The ECP 40th Street and Indian School Road WQARF Site (Site) plume in Phoenix, Arizona is bounded by Devonshire Avenue to the north, 41st Street to the east, Amelia Avenue to the south, and 38th Street to the west.

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 conducted groundwater sampling in 2008 using [passive diffusion bag samplers](#) in the [monitor wells](#). The highest concentration of [tetrachloroethene](#) (PCE) in groundwater during the October 2008 sampling event was 180 micrograms per liter ($\mu\text{g/l}$).

ADEQ installed a new well cluster (AMW9A-C) to investigate the vertical and lateral extent of the plume [downgradient](#) from the Kachina Dry Cleaners on 39th Street north of Indian School Road. Analytical results from the well indicate that the vertical extent of the plume has been assessed, but the plume is still not laterally defined to the southwest. An additional nested well (AMW10A-B) was installed in October 2008 on Monterosa Street downgradient of the former Allen's Dry Cleaners. Initial sampling results indicate the well is non-detect for PCE.

Due to current budget constraints, all work at the site has been temporarily suspended until such time as funding is made available.

Community Involvement Activities:

A [community advisory board](#) (CAB) was formed in November 2007. Details of CAB meeting [agendas](#) and minutes for can be viewed at the ADEQ Web site. These meetings are open to the public. The most recent [Site Update](#) can be found on the ADEQ Web site.

Site History:

1989: This Site was part of the ECP study area, which was bounded by Camelback Road to the north, 48th Street to the east, Thomas Road to the south, and 24th Street to the west. Soil gas surveys were conducted at multiple facilities throughout the ECP study area to determine if a release of contaminants had occurred to the subsurface.

1992-1994: In 1992, three groundwater monitor wells were installed at the Allen's Dry Cleaners facility. In August of 1993, one of two solvent vaults was excavated from the former Allen's Dry Cleaners facility, and three vapor [extraction wells](#) were installed beneath the excavated area. From November 1993 until February 1994, a [soil vapor extraction](#) (SVE) operated to remediate the contaminated soil. Also in 1994, one groundwater monitor well was installed at the Kachina Dry Cleaners facility.

1996-1997: In June 1996, a Site characterization of the Kachina Dry Cleaners was conducted. In 1997, four additional groundwater monitor wells were installed at the Allen's facility.

1998: The Site was placed on the [WQARF Registry](#) with a score of 20 out of a possible 120.

2003: One groundwater monitor well was installed in the alley between Allen's and Kachina Dry Cleaners.

2004-2005: In May and June 2004, as part of an [early response action](#) (ERA), ADEQ installed a SVE/[air sparge](#) (AS) remediation system at the Site. The system consists of four SVE wells; six air sparge wells; a SVE blower; a compressor; two 1,000 pound [granular activated carbon](#) units; and multiple safety shutdown controls. The system became operational in December 2004 and ultimately extracted approximately 35 pounds of PCE from the subsurface until it was shut down during June 2005.

2006: In the groundwater sampling event in October, PCE concentrations ranged from non-detect to 78 µg/l. ADEQ conducted an investigation at the Kachina Dry Cleaners facility to determine remaining amounts, if any, of PCE in the soil and groundwater. Soil, [soil vapor](#), and groundwater samples were collected in four [borings](#) that were drilled on the west side of the facility. PCE was detected in one soil sample at 0.12 milligrams per kilogram (mg/kg). One boring was also converted into a groundwater monitor well.

2007: In June, ADEQ sent out notices per A.R.S. §49-287.03 initiating the [remedial investigation](#) for the Site. During the sampling event in October, the highest concentration of PCE in groundwater was 50 µg/l.

2008: Semi-annual groundwater sampling continued at the Site. ADEQ continued to pursue the downgradient extent of the plume downgradient from the Kachina Dry Cleaners site. AMW 9A-C was installed on 39th Street north of Indian School Road and AMW 10 A-B was installed on Monterosa Street downgradient of the former Allen's Dry Cleaners.

2009: No activities occurred.

2010: No activities occurred.

Contaminants:

The current contaminants of concern in groundwater include [tetrachloroethene](#) (PCE) and [trichloroethene](#) (TCE). Contaminants of concern at the Site may change as new data becomes available.

Public Health Impact:

There is currently no known threat of direct exposure to the public from the contamination at the Site.

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 sandy and gravelly clay from ground surface to approximately 110 feet below ground surface (bgs). [Bedrock](#) is encountered at approximately 110 feet bgs. Based on October 2006 measurements from monitor wells, groundwater is encountered at approximately 45 feet bgs and flows to the southwest.

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 Site information at the ADEQ Main Office located at 1110 W. Washington Street, Phoenix. Please contact (602) 771-4380 or (800) 234-5677 to schedule an appointment with 24-hour notice to review these documents. Once all documents requested have been collected, you will be contacted for a review 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, AZ.