

East Central Phoenix (ECP) 48th Street and Indian School Road Water Quality Assurance Revolving Fund ([WQARF](#)) Site

Boundaries:

The ECP 48th Street and Indian School Road WQARF Site (Site) plume in Phoenix, Arizona is bounded by Devonshire Avenue to the north, 48th Street to the east, E. Fairmont Avenue to the south and 45th Place 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:

As part of the [early response action](#) (ERA), [Salt River Project](#) (SRP) continues to operate a [soil vapor extraction](#) (SVE) system at the Site. As of July 2010, approximately 307 pounds of [tetrachloroethene](#) (PCE) have been removed from soil in the [vadose zone](#).

A work plan is currently being developed to perform a soil gas survey at the site which will be used to help characterize contaminants in the shallow subsurface soil.

Community Involvement Activities:

A [community advisory board](#) (CAB) was formed in November 2007. Details of CAB meeting [agendas](#) and minutes 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: Two groundwater [monitor wells](#) were installed.

1999: In April, the Site was placed on the [WQARF](#) Registry with a score of 27 out of a possible 120.

2000: In December, ADEQ and SRP entered into a Governmental Services Contract in which ADEQ funded SRP to conduct an [interim remedial action](#) at this Site. Modeling conducted by SRP indicated that SRP Well 19.0E-8.1N would be impacted by PCE from a nearby groundwater

contaminant plume if the SRP well pump was turned on. As an interim remedial action, SRP designed and installed a SVE system to remove contamination from the subsurface.

2001: SRP installed three groundwater monitor wells.

2004: In July, SRP installed two SVE wells. A [non-title V Air Quality Permit](#) was submitted to [Maricopa County](#) for approval in August.

2006: The SVE system began operations in February. During the October sampling event, the PCE was detected at a maximum concentration of 4.9 micrograms per liter ($\mu\text{g/l}$). SRP continued to operate the SVE system.

2007: In June, ADEQ sent out notices per A.R.S. §49-287.03 initiating the [remedial investigation](#) for the Site. As of the end of September, approximately 295 pounds of PCE were removed from the vadose zone by the SVE system. During the sampling event in October, the maximum concentration of PCE detected was 6.7 $\mu\text{g/l}$. SRP continued to operate the SVE system.

2008: During the April sampling event, the maximum PCE concentration detected was 78 $\mu\text{g/l}$. To further delineate the plume [downgradient](#), ADEQ installed two new groundwater monitor wells (SMW-4 and -5) at 47th Street north of Indian School Road. During the sampling event in October, PCE concentrations in groundwater ranged from 5.7 $\mu\text{g/l}$ to below laboratory detection limits. SRP continued to operate the SVE system.

2009: SRP continued to operate the SVE system.

2010: A work plan is currently being developed to perform a soil gas survey at the site which will be used to help characterize contaminants in the shallow subsurface soil. SRP continued to operate the SVE system.

Contaminants:

The current contaminant of concern in groundwater is [tetrachloroethene](#) (PCE). 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 clayey silt with trace gravel from ground

surface to approximately 120 feet below ground surface (bgs). [Bedrock](#) is encountered at approximately 120 feet bgs.

Based on measurements during March 2006 from monitor wells, groundwater is encountered at approximately 25 feet bgs and flow direction is to the southwest.

Contacts:

Name	Phone/Fax	Email
Tina Le Page, ADEQ Project Manager	(602) 771-4293*/ (602) 771-4272 fax	lepage.tina@azdeq.gov
Felicia Calderon, ADEQ Community Involvement Coordinator	(602) 771-4167*/ (602) 771-4272 fax	fmc@azdeq.gov

*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, in 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.