

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

## Boundaries:

The ECP 40th Street and Osborn Road WQARF Site (Site) plume in Phoenix, Arizona is bounded by Weldon Avenue to the north, 38th Street to the west, E. Cherry Lynn Road to the south and 42nd Street to the east around [Salt River Project](#) (SRP) Well 17.9E-7.5N.

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 monitored SRP Well 17.9E-7.5N and three nearby groundwater [monitor wells](#) in 2008. The October 2008 sampling of the SRP well indicated a [tetrachloroethene](#) (PCE) concentration of 6.8 micrograms per liter ( $\mu\text{g/l}$ ) and  $<1.0$   $\mu\text{g/l}$  of [trichloroethene](#) (TCE). The groundwater sample from Well BMW-1 was below [Aquifer Water Quality Standards](#) (AWQS) for PCE and TCE, while Well BMW-2 and Well BMW-3 had a PCE concentration of 67 and 12  $\mu\text{g/l}$  respectively.

The Industrial Survey was expanded to include the area to the northwest of the SRP well bounded by 40th Street, Indian School Road, 44th Street and Osborn Road. The findings indicate that several dry cleaning establishments are/were located [upgradient](#) of the Site. Two new groundwater monitor wells were installed in April and May 2008 upgradient of the SRP well.

## Community Involvement Activities:

A [community advisory board](#) (CAB) was formed in November 2007. Details of CAB meeting [agendas](#) and minutes for 2008 and 2009 can be viewed at the ADEQ Web site. These meetings are open to the public. The most recent [site update sheet](#) can be found on the ADEQ Web site.

## Site History:

**2000:** In May, the Site was placed on the [WQARF Registry](#) with a score of 30 out of a possible 120.

**2003:** In June, one groundwater monitor well was installed in the Osborn Road alignment, west of 40th Street.

**1987-2006:** During routine monitoring, PCE was detected in SRP Well 17.9E-7.5N at levels above the AWQS of  $5.0$   $\mu\text{g/l}$ . The maximum PCE concentration was  $210$   $\mu\text{g/l}$  in September of

1998; the minimum PCE concentration was 17.9 µg/l in August of 1987. The source of the contamination is currently unknown.

**2006:** Groundwater samples are collected from one ADEQ well and SRP Well 17.9E-7.5N. The groundwater sample collected from the SRP well during October 2006 had 28 µg/l of PCE and <1.0 µg/l of TCE. The sample collected from the ADEQ well (BMW1) during October 2006 indicated that PCE and TCE were below detectable limits.

**2007:** ADEQ sent out notices in June per A.R.S. §49-287.03 initiating the [remedial investigation](#) for the Site. The October 2007 sampling of the SRP well indicated a PCE concentration of 15 µg/l and <1.0 µg/l of TCE. The groundwater sample from Well BMW-1 was below detectable levels for PCE and TCE.

**2008:** ADEQ installed Well BMW-2 in April and BMW-3 in May 2008, northeast of the SRP well. Both wells had PCE concentrations above AWQS with a maximum concentration of 67 µg/l.

### **Contaminants:**

The current contaminants of concern in groundwater include [tetrachloroethene](#) (PCE) and [trichloroethene](#) (TCE). However, TCE has only been detected above the AWQS one time in November 1996 (SRP well). TCE has not been detected at any other time from the initial sampling event in 1983 to 2006. Contaminants of concern at the Site may change as new data become 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](#) (AMA). The Salt River Valley is an [alluvial](#) filled basin located in the Basin and Range physiographic province.

Based on the [boring](#) log for SRP 17.9E-7.5N, the Site is underlain by gravelly clay from ground surface to approximately 120 feet below ground surface (bgs), where [bedrock](#) is encountered. While drilling a groundwater monitor well in June 2003, an [aquitard](#) was identified at a depth of 70 to 90 feet bgs.

Based on measurements in March 2006, depth to groundwater is approximately 32 feet bgs. Based on regional information, the groundwater flow direction is presumed to be 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. 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, Arizona. Please contact (602) 771-4380 or (800) 234-5677 to schedule an appointment to review these documents.