

SITE REGISTRY REPORT
Western Avenue Plume
Avondale/Goodyear, Arizona

This plume was discovered because of groundwater sampling that was conducted at the Phoenix Goodyear Airport. The U.S. EPA placed the airport on the National Priorities List (NPL) of contaminated areas targeted for investigation and clean up in 1983. In 1989, Goodyear Tire Company began cleaning the shallow groundwater with an air stripper and reinjecting the water back into the aquifer. The site boundary is bounded by Western Avenue in the Cities of Avondale and Goodyear, Arizona. The east-west extent appears to be from 2nd Street and Western Avenue in Avondale to just east of Litchfield Road and Western Avenue in Goodyear. Groundwater for Subunit A is approximately 60 to 110 feet below ground surface (bgs). A map of the site boundary is attached.

In 1993, an off site tetrachloroethylene, a.k.a. perchlorethylene (PCE) groundwater plume was detected up gradient to the Phoenix-Goodyear airport. An increasing trend of PCE showed in the groundwater data from wells in Subunit A (GMW-3, GMW-4 and GMW-7). PCE was detected in both GMW-3 and GMW-4 within the same year. Based on the data, the highest concentrations of PCE were detected in the wells up gradient to the Phoenix-Goodyear, which indicated that the source maybe near or up gradient to the City of Goodyear (COG) Public Works facility.

The City of Goodyear had a leaking underground storage (LUST) tank located at the COG Public Works facility. During the required sampling conducted by the City of Goodyear, PCE was detected in wells associated with the LUST site. In 1994, ADEQ's Site Assessment & Hydrology Unit conducted limited soil vapor sampling at the COG Public Works facility and also at Western Dry Cleaners. Sample results from both properties did not detect PCE contamination.

In 1995, two monitor wells were installed in order to characterize the quality of groundwater east and north of the vicinity of the Phoenix-Goodyear South Superfund site. The two wells were installed up and down-gradient of the Western Dry Cleaners on the boundary between the cities of Avondale and Goodyear. City of Avondale MW-1 is located down gradient of COA-MW-2; COA-MW-1 have been consistently higher than those in COA-MW-2. This information leads ADEQ to believe that the highest concentrations in groundwater are possibly located away from the source. ADEQ also infers that Subunit A groundwater extraction wells associated with PGA-South are drawing the plume.

This Site Registry Report (SRR) is based upon information available as of the date shown. The SRR is intended as a historical document meeting the public notification requirement of ARS 49-287.01 (B) and (D). Site boundaries depicted on the Site Boundary Maps represent ADEQ's interpretation of data available at the time the maps were constructed. The maps are intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of SRR. The actual event of contamination may be different. Therefore the geographic boundaries for this site may change in the future as new information becomes available.

An updated SRR and associated Site Boundary Map will not be issued. As new information becomes available it will be made available for public review through placement in the public file.

This site is being placed on the site registry because quarterly sampling of the monitoring wells in the plume area and a PRP search needed to be conducted at the site and to initiate the allocation process for any cost recovery monies which have been expended. The E+E score is 51.