



Miller Valley Rd. and Hillside Avenue Water Quality Assurance Revolving Fund Site — February 2017



Drilling a groundwater monitoring well at a WQARF site.

This fact sheet is a publication of the Arizona Department of Environmental Quality (ADEQ) to inform community members near the Miller Valley Road and Hillside Avenue Water Quality Assurance Revolving Fund (WQARF) site in Prescott of current site activities related to contamination being present as per Arizona Revised Statutes (A.R.S.) § 289.02.

If you receive your drinking water from the City of Prescott your current drinking water is not affected by the groundwater contamination at the site.

Please see the end of this fact sheet for a glossary of terms.

Site Description and Information

ADEQ recently added the Miller Valley Road and Hillside Avenue site to the WQARF registry. The Miller Valley Road and Hillside Avenue site is located in Prescott, Arizona. The site is approximately bounded to the north by the Merritt Avenue alignment, to the south by Miller Creek, to the east by Division Street, and to the west by Miller Creek and Valley Street (Figure 1, page 4 plume map). The site includes a mixture of public, commercial and residential land uses.

Sampling events in 2015 and 2016 identified tetrachloroethene (PCE),

trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE), which can be a degradation product of PCE/TCE, in several wells in the area. Two samples had a PCE concentration above the Aquifer Water Quality Standard (AWQS) of 5 micrograms per liter ($\mu\text{g/L}$). The highest PCE concentration was 418 $\mu\text{g/L}$, detected in a sample collected from a private irrigation well. TCE was also detected above its AWQS of 5 $\mu\text{g/L}$ in a temporary monitoring well. No other VOCs were detected at concentrations above the applicable AWQS. Groundwater in this area occurs at depths ranging from 10 to 30 feet below the ground surface. Groundwater flow direction ranges from the east-southeast to southeast.

Based upon the initial investigations, it appears that the primary sources of contamination are likely in the vicinity of a former dry cleaning location (now a Fry's Grocery store parking lot) and the vicinity of a current dry cleaning facility on Fair St, where elevated concentrations of PCE were previously detected in groundwater and soil gas.

Scope of Work, Outline of Community Involvement Plan, and Fact Sheet

Availability Notice Pursuant to ARS §49-287.03 (b) (c): ADEQ is announcing the availability of the scope of work, outline of a community involvement plan and fact sheet for the Miller Valley Road and Hillside Avenue WQARF site.

To obtain copies, contact Isabel Gutierrez at 602-771-4257; 1-800-234-5677 Ext: 6027714257

What are the contaminants at this site?

PCE is a man-made solvent commonly used in the dry cleaning process and as a degreaser in many industrial applications. TCE is another man-made solvent often used as a degreaser, but can also be a product of PCE breaking down in the environment.

What are the health risks associated with these contaminants?

There are multiple privately owned domestic water wells within the boundaries of the site. People who drink water containing PCE over many years could experience problems with their liver and may have an increased risk of cancer. TCE may also cause an increased risk of cancer and may cause an increased risk of congenital malformations. ADEQ is concerned that additional privately owned domestic supply wells may be impacted by groundwater contamination in the area of the site. City of Prescott wells are not present within the site boundaries.

The evaluation of this area does not necessarily represent a determination that the release of a hazardous substance at the site poses a threat to human health or the environment.

If you own or operate a private well within or near the area of this site, please contact ADEQ and we will arrange to collect a sample from your well.

Site History

Groundwater contamination by PCE and TCE above the AWQS was first reported in the area in 2002 during a leaking underground storage tank (LUST) investigation on the southeast corner of Miller Valley Road and Hillside Avenue. The investigation ruled out the leaking tank as a source of the PCE and TCE.

In 2005, MACTEC Engineering and Consulting, Inc. conducted an investigation to identify potential sources of the PCE. Soil gas was found to contain PCE near the location of

the former Village Cleaners. PCE was also detected in groundwater near the current Village Cleaners. One soil-gas sample taken near the current Village Cleaners facility contained a high level of PCE.

During the 2005 investigations, PCE was detected above AWQS in two private irrigation wells. The recent sampling event showed that the PCE concentrations in these two wells had increased.

What are ADEQ's future plans at this site?

The site was listed on the WQARF Registry December 12, 2016 with an Eligibility and Evaluation (E&E) score of 40 out of 120. ADEQ will begin the remedial investigation (RI) phase of the WQARF process to help determine the source of the contamination, as well as determine the depth and extent groundwater contamination down gradient. ADEQ will consolidate all the existing of site characterization data, combined with a study of land and water uses in the area, into an RI Report. The site will then proceed through a feasibility study (FS) that will analyze potential cleanup methods for achieving the cleanup goals determined during the RI.

What is the Water Quality Assurance Revolving Fund?

The WQARF Program was established by Arizona law to:

- Conduct statewide surface and groundwater monitoring
- Study health effects
- Perform early remedial actions
- Conduct long-term remedial action programs

ADEQ established the WQARF Registry to include sites in Arizona where groundwater and/or soil contamination is present. Sites appearing on the WQARF Registry are managed by the WQARF Program for investigation and/or cleanup of contamination. Listing of Miller Valley Road and Hillside Avenue

on the WQARF Registry was due in part to the presence of PCE and TCE in the groundwater beneath the site.

How can the public be involved?

As progress continues at the site, ADEQ will keep the public informed through fact sheets and public meetings. Please sign up for our mailing list to be notified of site progress and to let us know if there are others who should be provided notice. Fill out and return the enclosed mailing list information.

ADEQ is forming a Community Advisory Board (CAB) to advise ADEQ and the public of issues and concerns related to investigations and remediation of the site. The purpose of the CAB will be to:

- Provide comments to ADEQ about the RI Report and other cleanup and investigation issues related to this site
- Represent a diversified cross-section of the community in and around the site
- Participate in outreach to the community
- Make site visits, if desired

CAB Members Needed

ADEQ is currently looking for members of the public to serve on the CAB to represent the Miller Valley Road and Hillside Avenue area.

- Are you concerned about the environment and protecting public health?
- Do you live, work, own property or a business in the area of the site?
- Do you have a minimum of two hours a day, four times a year to volunteer?

If you answered yes to any of the questions and would like to apply to be a member of the CAB, please complete the enclosed application. For more information, please call the ADEQ Community Involvement Coordinator listed at the end of the notice.

ADEQ Contacts

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For further information on this site or other WQARF sites, please visit the ADEQ website at <http://www.azdeq.gov>. On the website, find the "Programs" drop-down on the menu bar, hover over "Waste Programs," and select "Superfund | State WQARF Sites." Click "View Registry" for a list of sites. Information about the Miller Valley Road and Hillside Avenue site is also available at the ADEQ main office located at 1110 W. Washington Street in Phoenix. Please call the Records Management Center at 602-771-4380, 48 hours in advance to review related documentation.

ADEQ will take reasonable measures to provide access to department services to individuals with limited ability to speak, write or understand English and/or to those with disabilities. Requests for language interpretation services or for disability accommodations must be made at least 48 hours in advance by contacting: 7-1-1 for TDD; 602-771-2215 for Disability Accessibility; or Ian Bingham, Title VI Nondiscrimination Coordinator at 602-771-4322 or idb@azdeq.gov.

ADEQ tomará medidas razonables para proveer acceso a los servicios del departamento para personas con capacidad limitada para hablar, escribir o entender Inglés y / o para las personas con discapacidad. Las solicitudes de servicios de interpretación del lenguaje o de alojamiento de discapacidad deben hacerse por lo menos 48 horas de antelación poniéndose en contacto con Ian Bingham, Title VI Nondiscrimination Coordinator al 602-771-4322 o idb@azdeq.gov.

GLOSSARY

Aquifer Water Quality Standard

These are enforceable standards set to protect the quality of water in Arizona aquifers for present and foreseeable uses, including consumption of the water by the public.

Contamination

Any hazardous substance released into the environment.

Cis-1,2-Dichloroethene (cis-1,2-DCE)

A highly flammable, colorless liquid used to produce solvents and in chemical mixtures. 1,2-DCE may be the product of the natural breakdown of PCE and TCE in the environment.

Eligibility and Evaluation (E&E)

The Eligibility and Evaluation (E&E) scoring model was established in 1996 pursuant to WQARF statute 49-287.01. Scores are derived from information about the contaminant release that is collected during the preliminary investigation.

Groundwater

Water found beneath the earth's surface that fills pores between materials such as sand, clay or gravel. In aquifers, groundwater occurs in sufficient quantities that it can be used for drinking water, irrigation and other purposes.

Remedial Investigation (RI)

An in-depth study designed to gather the data necessary to determine the nature and extent of contamination at a site and the risk posed by the contamination.

Tetrachloroethene (PCE)

A clear, colorless, nonflammable solvent that readily evaporates at room temperature. PCE is widely used for dry cleaning of fabrics and degreasing/drying of metals.

Trichloroethene (TCE)

A heavy, colorless, toxic liquid used to degrease metals, as an extraction solvent for oils and waxes, as a refrigerant, in dry cleaning and as a fumigant. TCE may be the product of the natural breakdown of PCE in the environment.



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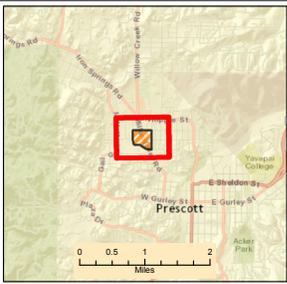
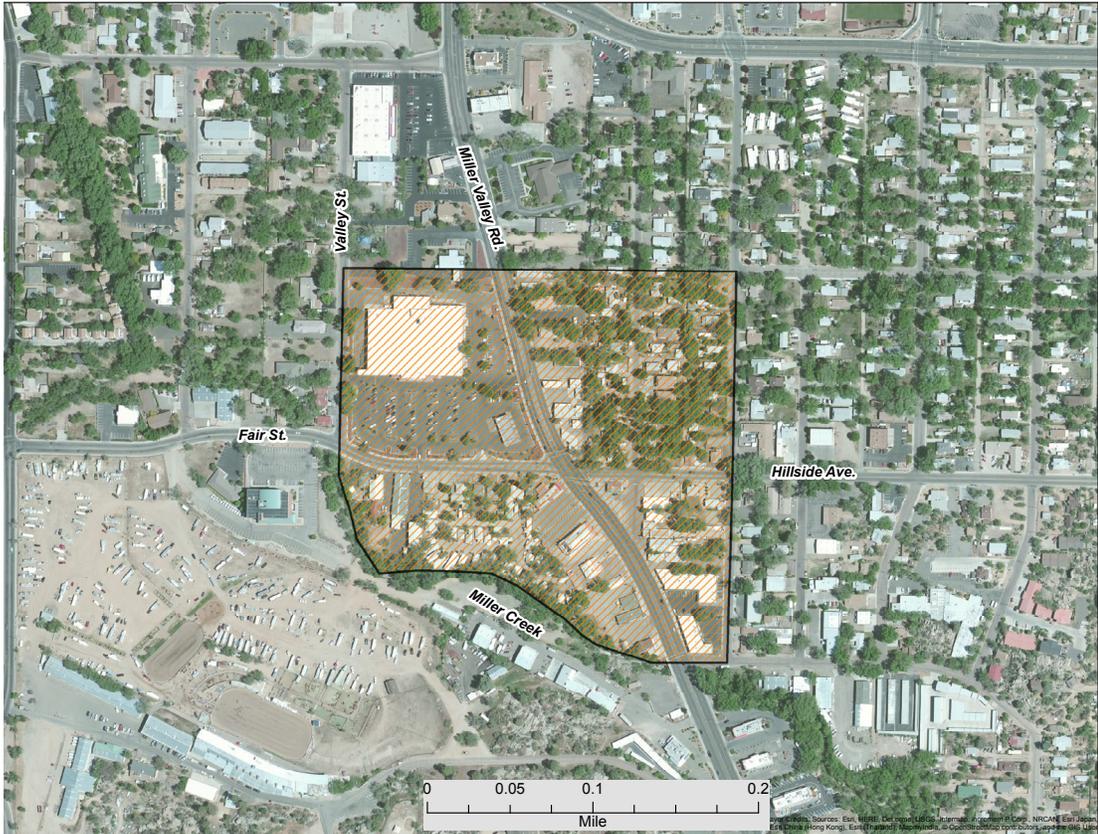
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Local Postal Customer

Miller Valley Rd. and Hillside Ave. - Prescott, Arizona



FACT SHEET



 Water Quality Assurance
 Revolving Fund Site
 (WQARF)
 Estimated Plume
 Plume Data Update: Sep 2016



Plume boundaries depicted on the site map represent ADEQ's 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 geographic extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the plume for this site may change in the future as new information becomes available.

Date Map Saved: 2016-09-19



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Figure 1 - Miller Valley Rd. and Hillside Ave. Map