



## HWY 260 and Main Street Water Quality Assurance Revolving Fund Site — March 2017



*Drilling a groundwater monitoring well at a WQARF site.*

*Published by the Arizona Department of Environmental Quality (ADEQ), this fact sheet provides current information to community members about the Highway 260 and Main Street Water Quality Assurance Revolving Fund (WQARF) site in Cottonwood in Yavapai county, as per Arizona Revised Statutes (ARS) § 289.02.*

*If you receive your drinking water from Cottonwood Municipal Water or from Arizona Public Service Company at its Cottonwood Service Center, your drinking water is not affected by 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 Highway 260 and Main Street Preliminary Investigation (PI) site to the WQARF Registry. The site was listed on the WQARF Registry on Dec. 12, 2016, with an eligibility and evaluation (E&E) score

of 40 out of 120, due to the presence of tetrachloroethene (PCE) in the aquifer at concentrations that exceed the Arizona Aquifer Water Quality Standard (AWQS). Located in Cottonwood, Ariz., the site is approximately bounded to the north by Mingus Avenue, to the south by Mongini Lane, to the east by the Verde River, and to the west by South 15th Street, South Main Street and Highway 260. (Figure 1, Page 4 Site Map). The site includes a mixture of public, commercial and residential land uses along Arizona State Highway 260.

### Site History

In August 2005, the owners of the Swanson RV Park filed a complaint with the ADEQ Hazardous Waste Inspections and Compliance Unit due to PCE contamination in a drinking water well. Water in this well was contaminated with PCE at a concentration of 8.5 micrograms per liter ( $\mu\text{g/L}$ ).

Subsequent investigations were conducted to identify potential

sources of PCE that impacted the well at Swanson RV Park. Groundwater and soil-gas sampling identified two potential source areas: Cottonwood Cleaning & Bridal Boutique (located at the corner of Main Street and Aspen Street) and Cottonwood Quality Dry Cleaning (located at the corner of Main Street and Camino Real). A limited field investigation showed that groundwater in the area of Cottonwood Cleaning & Bridal Boutique and in the area of Cottonwood Quality Dry Cleaning was impacted with PCE at concentrations above the AWQS. Elevated concentrations of PCE were also detected in soil-gas in both locations.

A recent sampling event identified PCE, trichloroethene (TCE) and cis-1,2-dichloroethene (DCE) in several wells across the area. PCE was detected in two samples at a concentration above the AWQS of 5  $\mu\text{g/L}$ . No other contaminants were detected at concentrations above the applicable AWQS.

The highest PCE concentration was 20

µg/L, detected in a sample collected from a private domestic well. PCE was present at a concentration of 8.6 µg/L in a mobile home park well supplying water to 14 residences. An alternative water source has been provided to affected residents.

### 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.

### What are the contaminants at this site?

PCE is a manmade solvent commonly used in the dry cleaning process and as a degreaser in many industrial applications. TCE is a solvent primarily used in metal degreasing and cleaning operations and can also be a breakdown product of PCE.

### 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 Highway 260 and Main Street WQARF site.*

*To obtain copies, contact Wendy Flood at 602-771-4410; 1-800-234-5677 Ext: 6027714410*

### What are the health risks associated with these contaminants?

People who drink water containing PCE or TCE over many years could experience problems with their livers and may have an increased risk of cancer.

### What does this mean for the community near the site?

There are multiple privately owned domestic water wells within the boundaries of the site. 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 public health or the environment. Cottonwood Municipal Supply and Arizona Public Service wells are not present within the site boundaries.

**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.**

### What are ADEQ's future plans at this site?

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 of groundwater contamination down gradient. ADEQ will consolidate all the existing site characterization data, combined with a study of land and water uses in the area, into an RI Report.

### 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

- 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:

#### Matt Narter

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#### Wendy Flood, ADEQ Community Involvement Coordinator

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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 Highway 260 and Main Street 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](mailto: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](mailto:idb@azdeq.gov).

## GLOSSARY

### ***Aquifer***

An underground rock formation composed of such materials as sand, soil or gravel that can store groundwater and supply it to wells and springs. In aquifers, groundwater occurs in sufficient quantities to be used for drinking water, irrigation and other purposes.

### ***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

### ***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.

### ***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



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 AZ STATE DEPT OF ENVIRONMENTAL QUALITY  
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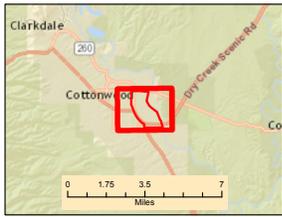
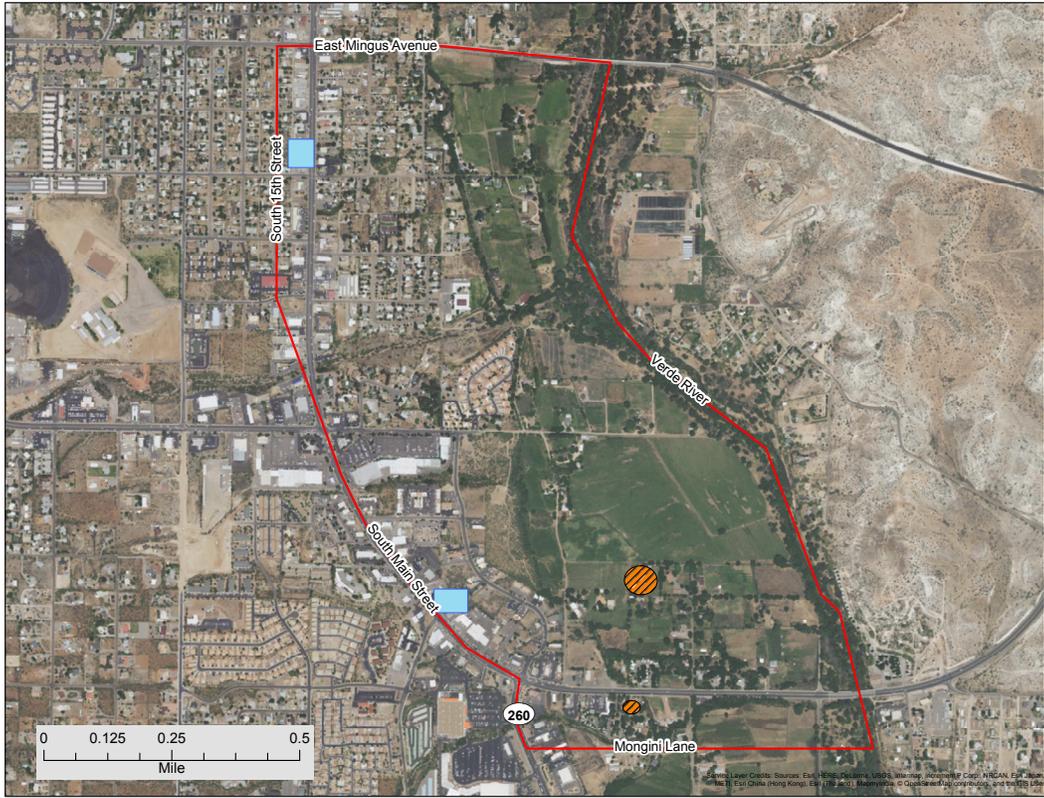
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HWY 260 and Main Street - Cottonwood, Arizona



**FACT SHEET**



**Legend**

- Area of Investigation
- Potential Source Area
- Confirmed Groundwater Contamination

**Data Update: September 2016**



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 potential contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the area of investigation for this site may change in the future as new information becomes available.

Date Map Saved: 2016-09-26



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Figure 1 - Highway 260 and Main Street Map