History of TCE in Tucson

**TCE Introduced To Environment**
Aircraft and electronics industries used TCE as a degreaser for metal parts. Waste was disposed in unlined pits and landfills.

**Clean Water Act Established**
Created structure for regulating pollutant discharge into water.

**1972**
- Tucson Water and EPA tested groundwater and found high levels of TCE.
  - Tucson Water shut down 11 city and several private wells.

**1981**
- 1,4-Dioxane discovered in TARP Plume.
  - There is no MCL for 1,4-Dioxane.
  - The advisory level is 0.35 ppb.
  - Not identified as Contaminant of Concern until 2000.

**TCE Found in Ground Water**
- Tucson Water and EPA tested groundwater and found high levels of TCE.
  - Tucson Water shut down 11 city and several private wells.

**1982**
- TIAA Declared A Superfund Site

**1994**
- AOP Treatment Facility Begins Operation
  - Design and construction began in 2012.
  - TCE and 1,4-Dioxane is not detected in water delivered from TARP and AOP.

**2002**
- 1,4-Dioxane Discovered in TARP Plume
  - There is no MCL for 1,4-Dioxane.
  - The advisory level is 0.35 ppb.
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**2014**
- AOP Treatment Facility Begins Operation
  - Design and construction began in 2012.
  - TCE and 1,4-Dioxane is not detected in water delivered from TARP and AOP.

**Quick Facts**
- Current MCL for TCE: 5 parts per billion (ppb).
- MCL: Maximum Contaminant Level - Highest amount of a contaminant allowed in water supply. This level is set by EPA.
- What is a part per billion or ppb?
  - 1 penny in $10,000,000
  - 1 second in 32 years
  - 1 blade of grass on a football field
  - 1 drop of water in an Olympic-sized pool

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