

-  = Contributing Zone
-  = Recharge Zone
-  = Artesian Zone
-  = Well (approximate location)

**Bexar County
Public Supply Wells Found to
Contain Chlorinated Solvents
1982 - 1996**

Each dot represents an Edwards Aquifer public supply well where chlorinated solvents (mostly TCE and PCE) were detected at least once between 1982 and 1996.

- i. Solvents are man-made substances so they're there for only one reason: we put them there
- ii. Second, in almost all cases, concentrations of solvents were well below the standards that have been established to protect human health.
- iii. In some of these wells a solvent was detected on only one occasion, and all other samples from the well were free of solvents. In other wells, solvents were detected in many samples, over a period of many years.
- iv. We think we know where the solvents came from in only a few cases. In most cases, we don't know the source of the solvents.
- v. These are not the only Edwards wells in Bexar County where chlorinated solvents have been found. They have been found in many more wells. What is shown here are public supply wells. Mostly drinking water wells operated by SAWS and Bexar Metropolitan Water District.
- vi. Look at the distribution of wells where solvents have been found. Even though the central portion of Bexar County has been developed much longer than the northern portion of the county, most solvents have been found toward the north - near and on the recharge zone - the most vulnerable portion of the aquifer. The exception to that general trend is down here around Kelly AFB - that's a whole story in itself; one we won't get into here.
- vii. I see these man made contaminants in our wells as an early warning - telling us we need to be careful.

DRAFT (9/28/98)
Chlorinated Solvents
Found in Public Supply Wells
Bexar County, 1982 - 1996ⁱ

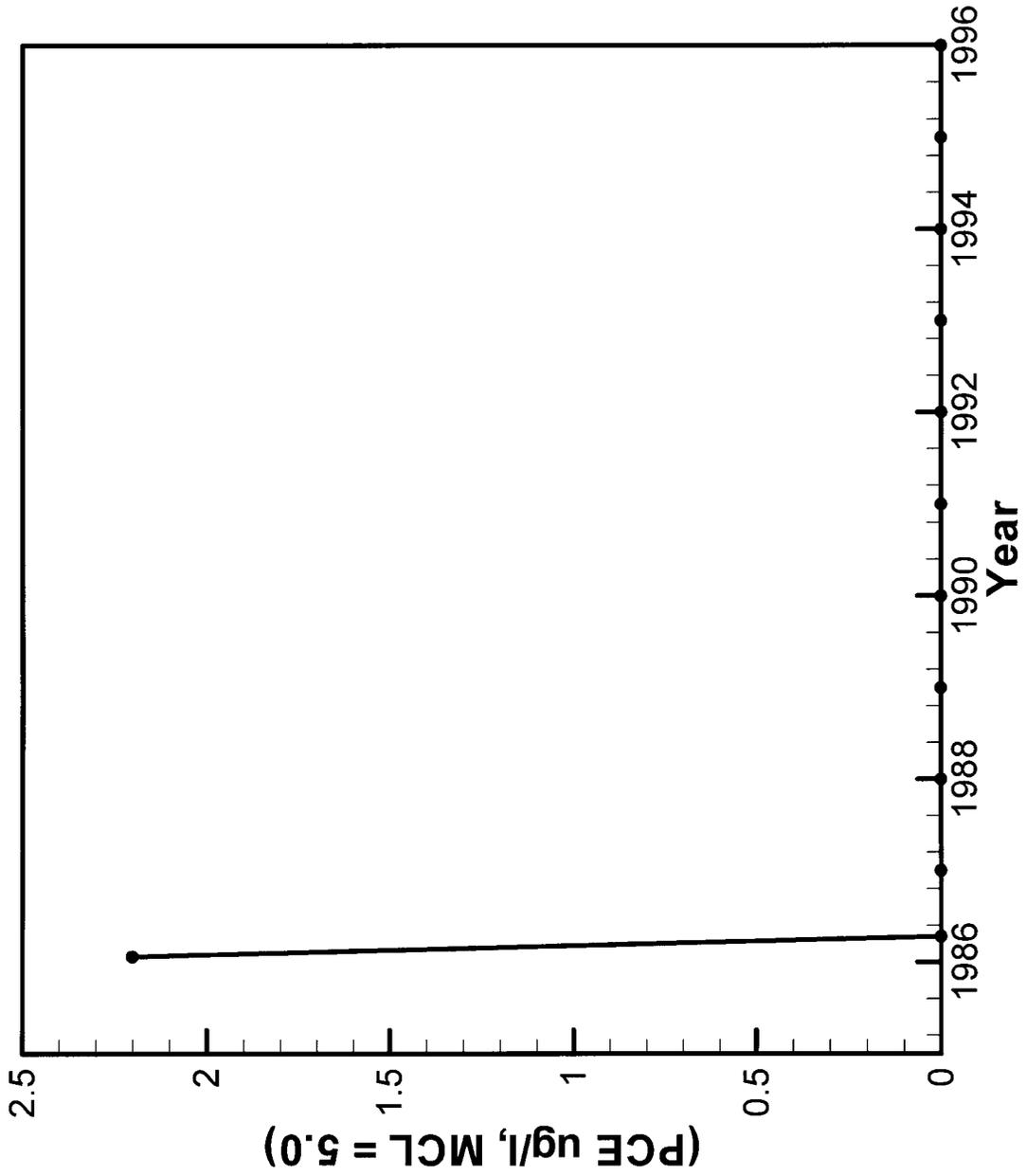
Well I.D.	Date	TCE ⁱⁱ	PCE ⁱⁱⁱ	Other	Remarks
All concentrations given as µg/l (parts per billion)					
AY-68-27-503	8/14/86 8/30/89 4/30/90 4/23/91		0.2 0.15 0.3 0.2		WCID #17, Helotes
AY-68-28-203	8/17/89	0.3			Shavano Park Water System Well #5
AY-68-28-205	8/16/89	2.6	0.14		Shavano Park Water System Well #6
AY-68-28-501	10/6/94			2 (1,2 DCE ^{iv})	Shavano Park Water System Well #3
AY-68-28-502	8/21/86			1.0 (PCA ^v)	Shavano Park Water System Well #4
AY-68-28-513	10/6/94		0.3		Shavano Park Water System Well #7
AY-68-28-514	4/8/89 5/5/90		0.4 0.2		Shavano Park Water System Well #8
AY-68-28-806	10/31/96		2.0		SAWS ^{vi} Dreamhill Well
AY-68-28-902	2/16/83 3/15/83 4/15/83 5/20/83 6/24/83 7/28/83 11/3/83 11/4/83 2/3/84 4/18/84 10/25/84 3/28/85 8/28/85 9/27/85 5/14/86 7/17/86 1/22/87 6/28/90 9/26/90 12/3/92 8/24/93 10/24/94 3/15/95 2/2/95 5/24/95 6/13/96 7/18/96 8/20/96		3.9 (1) 3.3 2.0 3.0 3.0 3.0 3.8 3.8 3.0 4.0 2.5 1.5 2.6 1.7 1.8 2.1 1.5 1.0 0.2 1.0 0.9 1.3 1.16 (3) 1.6 (3) 2.0 2.4 2.0 2.2	0.3 (1,2 DCE) 0.23 (1,2 DCE), (2) 0.32 (1,2 DCE), (3) 0.29 (1,2 DCE) 0.34 (1,2 DCE) 0.26 (1,2 DCE) 0.38 (1,2 DCE)	SAWS Ramsey Well, near airport (1) = average of 3 values (2) = average of 5 values (3) = average of 6 values
		0.5			
		0.3			
		0.2			
		0.3 (3)			
		0.42 (3)			
		0.48			
		0.5			
		0.5			
		0.57			

Well I.D.	Date	TCE	PCE	Other	Remarks
AY-68-28-903	6/24/82 6/24/82 9/21/82 2/16/83 11/3/83 6/14/84 8/16/84 8/25/84 2/13/85 8/6/86 7/17/87 6/27/88 8/7/89 8/8/89 5/16/90 8/15/91	 1.0 0.8 1.2 0.3 0.9	0.5 5.5 ^{vii} 1.2 3.1 (1) 3.0 (1) 3.7 3.2 3.2 3.0 5.0 3.1 2.0 2.0 2.7 1.0 2.0	 0.3 (Vinyl Chloride ^{viii}) 1.3 (1,2 DCE)	BMWDX, Morey Peak Well, Castle Hills(?), Abandoned in 199? (1) = average of 5 values
AY-68-28-904	2/15/83 4/22/87 8/8/89 5/16/90		0.8 0.6 0.5 0.6		BMWD, Lockhill Well, Castle Hills(?)
AY-68-28-905	1983 (1) 8/10/89		0.3 0.3		BMWD Lemonwood (1) = exact date unknown
AY-68-28-909	8/22/89 6/25/90		0.23 0.20		SAWS West Avenue Well
AY-68-28-911	11/22/93 2/22/96		0.34 0.5		SAWS Barbet Wells
AY-68-28-913	8/9/89		0.2	0.1 (1,4 DCB ^x)	BMWD
AY-68-28-919	4/22/87 8/10/89 5/16/90		0.2 0.3 0.2		BMWD
AY-68-29-410	8/16/89 10/6/94	0.7 0.2			Hill Country Water System Well #1 (BMWD)
AY-68-29-414	10/6/94		0.4		Hill Country Water System Well #7 (BMWD)
AY-68-29-609	1983-1984 (1) 8/28/91 11/18/91 9/9/92 11/4/92		0.3 0.3 0.3 0.4 0.3		SAWS Naco Wells (1) = exact date unknown
AY-68-29-702	8/10/87 8/22/89 11/3/89 11/7/90 8/28/91 11/18/91 9/9/92 11/4/92 11/16/93 6/13/96 7/18/96 8/20/96		0.5 0.26 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.18 0.29 0.27 0.27		SAWS Maltzberger Wells, near airport
AY-68-29-912	8/28/86		0.7		WCID #10, Windcrest
AY-68-29-920	4/19/88		2.2		WCID #10, Windcrest

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- ⁱ Sources of data: Edwards Underground Water District, San Antonio water System, US Geological Survey, Bexar Metropolitan Water District, Texas Natural Resources Conservation Commission, Kelly AFB
- ⁱⁱ TCE = trichloroethylene, Maximum Contaminant Limit (MCL) = 5 µg/l
- ⁱⁱⁱ PCE = perchloroethylene, tetrachloroethylene, MCL = 5µg/l
- ^{iv} 1,2 DCE = 1,2 dichloroethylene, MCL = 70µg/l
- ^v PCA = 1,1,2,2 tetrachloroethane, no MCL
- ^{vi} SAWS = San Antonio Water System
- ^{vii} Bold = concentration equals or exceeds MCL
- ^{viii} Vinyl Chloride, MCL = 2 µg/l
- ^{ix} BMWD = Bexar Metropolitan Water District
- ^x DCB = dichlorobenzene, MCL 1,4 DCB = 75 µg/l
- ^{xi} DCA = dichloroethane, MCL 1,2 DCA = 5 µg/l
- ^{xii} Chlorobenzene, MCL = 100 75µg/l
- ^{xiii} TCA = trichloroethane, 1,1,1 TCA, MCL = 200 µg/l; 1,1,2 TCA, MCL = 5µg/l
- ^{xiv} PCA = tetrachloroethane, No MCL
- ^{xv} Methylene Chloride, Dichloromethane, MCL = 5 µg/l
- ^{xvi} lead action level = 15µg/l
- ^{xvii} mercury MCL = 2 µg/l

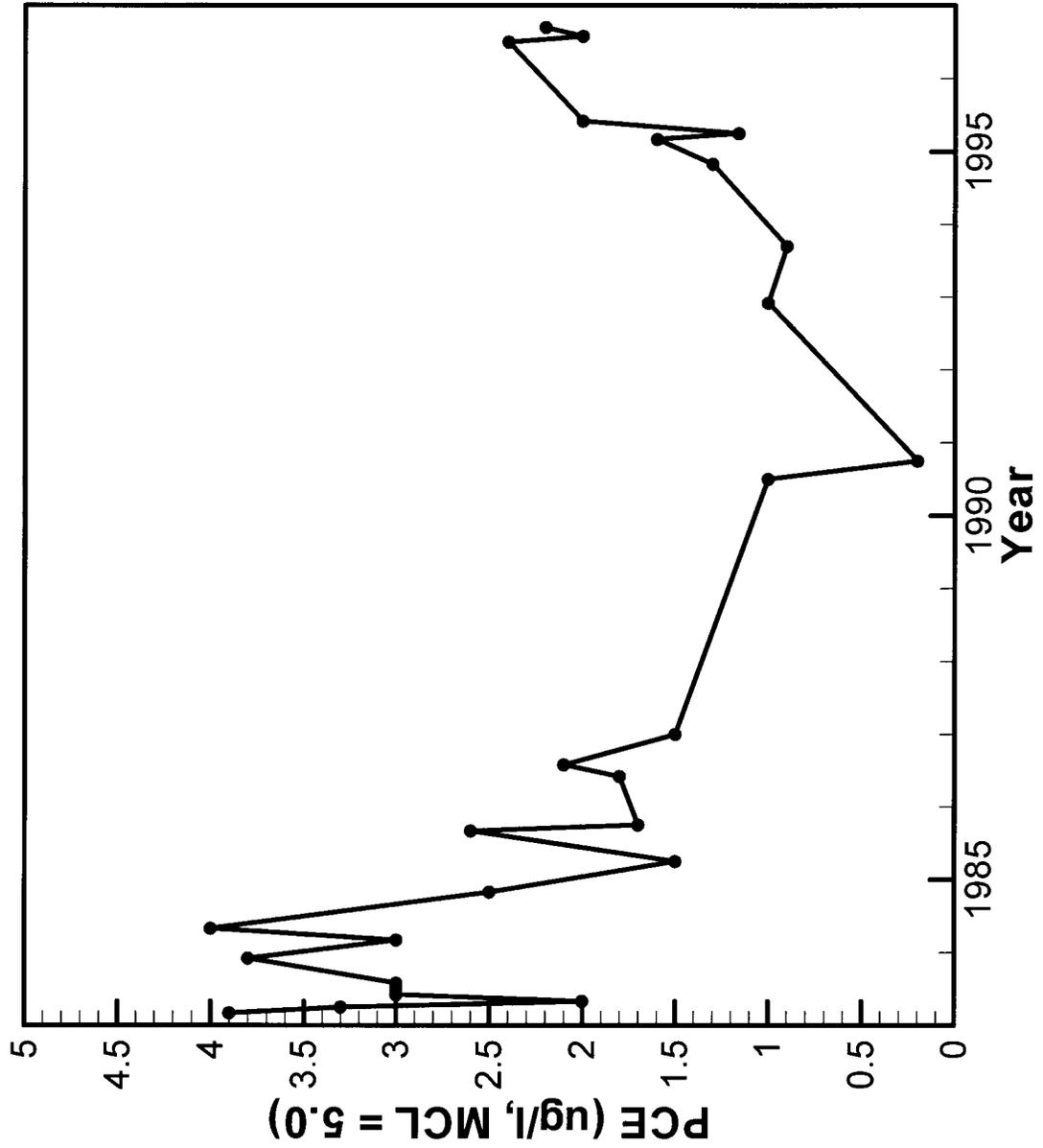
[XY] | 23 Mar 2002 | PCE in KAFB Well 1044, 1986

KAFB Edwards Well 1044 - PCE Concentrations



[XY] | 23 Mar 2002 | PCE in SAWS Ramsey Well, 1983 - 1986

SAWS Ramsey Well - PCE Concentrations



[XY] | 23 Mar 2002 | PCE in SAWS Wurzbach Wells, 1987 - 1994

SAWS Wurzbach Wells - PCE Concentrations

