

SAN ANTONIO WATER SYSTEM

Composite Analysis

Trinity Aquifer

Data Represents Analytic Results From 2003-2005

CONSTITUENTS	Detection Limit for Reporting	Concentration Range Found	MCL
Hardness as CaCO ₃ (mg/L)	1.50	338 to 348	
Total dissolved solids (mg/L)	5.00	392 to 448	500 **
Specific Conductance (umhos/cm)		639 to 720	
pH UNITS		6.7 to 7.5	8.5
Alkalinity, Phenolphthalein	2.00	ND	
Alkalinity, Total (As CaCO ₃)	2.00	268 to 319	
RADIOACTIVITY			
GROSS ALPHA(pCi/L)	2.0	1.0 to 2.5	15 *
GROSS BETA(pCi/L)	4.0	4.0 to 5.2(+/- 1.7)	4 *
Radium 228(pCi/L)		<1.0 to 3.4 (+/- 1.1)	5 *
Radon (pCi/L)		1.0(+/-0.2)	
CONSTITUENTS µg/L	Detection Limit for Reporting	Concentration Range Found (parts per million)	MCL (parts per million)
Antimony	0.00100	ND	0.006 *
Arsenic	0.00200	ND	0.010 *
Barium	0.00200	0.0205 to 0.1210	2.0 *
Beryllium	0.00100	ND	0.004 *
Cadmium	0.00100	ND	0.005 *
Chromium	0.00100	ND to 0.00350	0.1 *
Copper	0.00200	ND to 0.0106	1.3 *
Fluoride	0.0100	0.5 to 0.8	4.0 *
Lead	0.00100	ND to 0.00213	0.015 *
Mercury	0.0002	ND	0.002 *
Nickel	0.00100	0.0012 to 0.0028	0.1 *
Nitrogen, Nitrate (AS N)	0.0100	ND to 0.73	10.0 *
Nitrogen, Nitrite (AS N)		ND	1.0 *
Selenium	0.00400	ND	0.05 *
Thallium	0.00100	ND	0.002 *
Manganese	0.00100	ND to 0.0012	0.05 **
Sulfate	1.50	37 to 31	250 **
Aluminum	0.00400	ND	0.05 to 0.2 **
Zinc	0.00400	ND to 1.45	5.0 **
Chloride	1.50	16 to 22	250 **
Silver	0.00100	ND	0.1 **
Iron	0.0510	ND to 0.033	0.3 **
Bicarbonate		327 to 389	
Calcium	0.204	65 to 90.6	
Magnesium	0.204	25.2 to 42.9	
Sodium	0.714	6.36 to 10.7	

ND = Not Detected

MCL - Maximum Contaminate Level

* National Primary Drinking Water Standard - MCL

** National Secondary Drinking Water Standard - MCL

Compiled by the :
Groundwater Protection Section

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VOLATILE ORGANICS; µg/L	Detection Limit for Reporting	Concentration Range Found (parts per billion)	MCL (parts per billion)
Trihalomethanes			
Chloroform	1.0	ND	
Bromodichloromethane	1.0	ND	
Dibromochloromethane	1.0	ND to 2.0	
Bromoform	1.0	ND to 3.7	
Dibromomethane		ND to 6.4	
Total Trihalomethanes			80
VOLATILE ORGANICS; µg/L			
REGULATED COMPOUNDS			
1,1 Dichloroethene	0.5	ND	7
1,1,1-Trichloroethane	0.5	ND	200
1,1,2-Trichloroethane	0.5	ND	5
1,2,4-Trichlorobenzene	0.5	ND	70
1,2-Dichlorobenzene	0.5	ND	600
1,2-Dichloroethane	0.5	ND	5
1,2-Dichloropropane	0.5	ND	5
1,4-Dichlorobenzene	0.5	ND	75
Benzene	0.5	ND	5
Carbon tetrachloride	0.5	ND	5
Chlorobenzene	0.5	ND	100
CIS-1,2-Dichloroethene	0.5	ND	70
Ethyl benzene	0.5	ND	700
Methylene chloride (DCM)	0.5	ND	5
Styrene	0.5	ND	100
Tetrachloroethene	0.5	ND	5
Toluene	0.5	ND	1000
trans-1,2-Dichloroethene	0.5	ND	100
Trichloroethene	0.5	ND	5
Vinyl chloride	1.0	ND	2
m&p-Xylene	1.0	ND	***
o-Xylene	0.5	ND	***
Xylenes, Total	1.0	ND	10000***
VOLATILE ORGANICS; µg/L			
MONITORED COMPOUNDS			
1,1,1,2-Tetrachloroethane	1.0	ND	
1,1,2,2-Tetrachloroethane	1.0	ND	
1,1-Dichloroethane	1.0	ND	
1,1-Dichloropropene	1.0	ND	
1,2,3-Trichlorobenzene	1.0	ND	
1,2,3-Trichlorobenzene	1.0	ND	
1,2,4-Trimethylbenzene	1.0	ND	
1,3,5-Trimethylbenzene	1.0	ND	
1,3-Dichloropropane	1.0	ND	

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*** Total for all Three Xylene

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VOLATILE ORGANICS; µg/L MONITORED COMPOUNDS	Detection Limit for Reporting	Concentration Range Found (parts per billion)
1,3-Dichloropropane	1.0	ND
2,2-Dichloropropane	1.0	ND
2-Chlorotoluene	1.0	ND
2-Hexanone	1.0	ND
4-Chlorotoluene	1.0	ND
4-Isopropyltoluene	1.0	ND
Bromobenzene	1.0	ND
Bromochloromethane	1.0	ND
Bromomethane	1.0	ND
Chloroethane	2.0	ND
Chloromethane	2.0	ND
cis-1,3-Dichloropropene	2.0	ND
Dibromomethane	1.0	ND
Dichlorodifluoromethane	1.0	ND
Hexachlorobutadiene	1.0	ND
Iodomethane	2.0	ND
Isopropylbenzene	1.0	ND
Naphthalene	1.0	ND
n-Butylbenzene	1.0	ND
n-Propylbenzene	1.0	ND
s-Butylbenzene	1.0	ND
t-Butylbenzene	1.0	ND
trans-1,3-Dichloropropene	1.0	ND
Trichlorofluoromethane	2.0	ND
OTHER COMPOUNDS µg/L		
1,2-Dibromo-3-chloropropane	1.0	ND
1,2-Dibromoethane	1.0	ND
2-Butanone(MEK)	10.0	ND
4-Methyl-2pentanone (MIBK)	2.0	ND
Acetone	10	ND
Acrylonitrile	10	ND
Carbon disulfide	1.0	ND
Ethyl methacrylate	1.0	ND
Methyl methacrylate	1.0	ND
Methyl-t-butyl ether (MTBE)	2.0	ND
Tetrahydrofuran	2.0	ND
Vinyl acetate	10.0	ND

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Data Represents Analytic Results From 2001-2002

SEMIVOLATILE ORGANIC COMPOUNDS SOC 5 525.1 µg/L	Detection Limit for Reporting	Concentration Range Found (parts per billion)	MCL (parts per billion)
^ Alachlor	0.20	ND	2.0 *
^ Atrazine	0.20	ND	3.0 *
^ Chlordane (alpha-chlordane)	0.20	ND	2.0 (total) *
^ Chlordane (gamma-chlordane)	0.20	ND	2.0 (total) *
^ Chlordane (trans-nonachlor)	0.20	ND	2.0 (total) *
^ Endrin	0.20	ND	2.0 *
^ Heptachlor	0.20	ND	0.40 *
^ Heptachlor Epoxide	0.20	ND	0.20 *
^ Hexachlorobenzene	0.20	ND	1.0 *
^ Hexachlorocyclopentadiene	0.20	ND	50.0 *
^ Lindane	0.20	ND	0.20 *
^ Methoxychlor	0.20	ND	40.0 *
^ Pentachlorophenol	1.02	ND	1.0 *
^ Simazine	0.20	ND	4.0 *
Aldrin	0.20	ND	0.20 *
Bromacil	0.20	ND	
Butachlor	0.20	ND	
Dieldrin	0.20	ND	
Metolachlor	0.20	ND	
Metribuzin	0.20	ND	
Parathion, ethyl	0.20	ND	
Parathion, methy	0.20	ND	
Promethon ##	0.20	ND	
Propachlor	0.20	ND	
Trifluralin	0.20	ND	
PAHs			
Acenaphthene	0.20	ND	
Acenaphthylene	0.20	ND	
Anthracene	0.20	ND	
^ Benzo[a]anthracene	0.20	ND	
Benzo[a]pyrene	0.20	ND	0.20 *
Benzo[b]fluoranthene	0.20	ND	
Benzo[g,h,i]perylene	0.20	ND	
Benzo[k]fluoranthene	0.20	ND	
Chrysene	0.20	ND	
Dibenx[a,h,]anthracene	0.20	ND	
Fluorene	0.20	ND	
Indeno[1,2,3,c,d]pyrene	0.20	ND	
Naphthalene	0.20	ND	
Phenanthrene	0.20	ND	
Pyrene	0.20	ND	

ND = Not Detected

^ - Regulated Compounds

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