

**Table 3. Water quality of the Gulf Coast aquifer**

[ft, feet; gal/min; gallons per minute;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter at 25 °C; °C, degrees Celsius; mg/L, milligrams per liter; NTU, nephelometric turbidity units;  $\mu\text{g}/\text{L}$ , micrograms per liter; <, less than; --, not available]

Sampled well number (fig. 2)	USGS station number	State well number	Aquifer	Sample date	Depth of well (ft)	Flow rate (gal/min)	Specific conductance (field) ( $\mu\text{S}/\text{cm}$ )	pH (field) (standard units)	Water temperature (°C)	Dissolved solids, residue at 180 °C (mg/L)	Turbidity (NTU)	Hardness, total (mg/L as $\text{CaCO}_3$ )
33	272352098585101	YZ-84-33-707	Gulf Coast	09/10/1997	198	23	1,461	7.1	27	919	1.4	280
34	272636098531601	YZ-84-33-602	Gulf Coast	10/30/1997	360	15	1,750	8.5	28	1,090	.10	13
35	272550098501601	YZ-84-34-406	Gulf Coast	10/29/1997	340	20	1,524	8.3	30	872	.10	20
36	273232098490301	YZ-84-26-501	Gulf Coast	03/03/1998	440	15	1,588	8.3	30	972	.15	19

  

Sampled well number (fig. 2)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium adsorption-ratio	Sodium percentage	Potassium, dissolved (mg/L as K)	Alkalinity (field, total) (mg/L as $\text{CaCO}_3$ )	Bicarbonate, dissolved (mg/L as $\text{HCO}_3$ )	Sulfate, dissolved (mg/L as $\text{SO}_4$ )	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)
33	75	23	197	5	60	9.4	237	289	121	248	0.88
34	2.8	1.3	379	47	98	5.7	319	389	91	335	1.3
35	4.9	1.8	291	29	96	5.4	314	383	93	210	.89
36	5.2	1.5	337	33	97	5.7	296	361	149	217	.64

  

Sampled well number (fig. 2)	Silica, dissolved (mg/L as Si)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, nitrite + nitrate, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_3$ )	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia + organic, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, ortho, dissolved (mg/L as P)	Phosphate, ortho, dissolved (mg/L as $\text{PO}_4$ )	Aluminum, dissolved ( $\mu\text{g}/\text{L}$ as Al)
33	81	<0.01	5.9	--	<0.01	<0.2	--	<0.01	<0.01	--	3.7
34	32	<.01	<.05	0.03	.02	<.1	--	.03	.03	0.09	7.1
35	43	.01	1.5	--	<.01	<.2	--	.03	.04	.11	4.4
36	31	<.01	<.05	.04	.03	<.1	--	<.01	.03	.10	4.1

  

Sampled well number (fig. 2)	Antimony, dissolved ( $\mu\text{g}/\text{L}$ as Sb)	Arsenic, dissolved ( $\mu\text{g}/\text{L}$ as As)	Barium, dissolved ( $\mu\text{g}/\text{L}$ as Ba)	Beryllium, dissolved ( $\mu\text{g}/\text{L}$ as Be)	Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	Cadmium, dissolved ( $\mu\text{g}/\text{L}$ as Cd)	Chromium, dissolved ( $\mu\text{g}/\text{L}$ as Cr)	Cobalt, dissolved ( $\mu\text{g}/\text{L}$ as Co)	Copper, dissolved ( $\mu\text{g}/\text{L}$ as Cu)	Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	Lead, dissolved ( $\mu\text{g}/\text{L}$ as Pb)
33	<1	7.5	55	<1	1,234	<1	2.5	<1	1.3	99	<1
34	<1	<1	54	<1	2,538	<1	4.2	<1	<1	<3	<1
35	<1	77	51	<1	1,709	<1	3.0	<1	1.3	<3	<1
36	<1	1	22	<1	1,702	<1	5.3	<1	<1	<10	<1

  

Sampled well number (fig. 2)	Lithium, dissolved ( $\mu\text{g}/\text{L}$ as Li)	Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	Mercury, dissolved ( $\mu\text{g}/\text{L}$ as Hg)	Molybdenum, dissolved ( $\mu\text{g}/\text{L}$ as Mo)	Nickel, dissolved ( $\mu\text{g}/\text{L}$ as Ni)	Selenium, dissolved ( $\mu\text{g}/\text{L}$ as Se)	Silver, dissolved ( $\mu\text{g}/\text{L}$ as Ag)	Strontium, dissolved ( $\mu\text{g}/\text{L}$ as Sr)	Uranium, dissolved ( $\mu\text{g}/\text{L}$ as U)	Vanadium, dissolved ( $\mu\text{g}/\text{L}$ as V)	Zinc, dissolved ( $\mu\text{g}/\text{L}$ as Zn)
33	27	11	<0.1	2.0	<1	3.6	<1	813	2.8	59	1.1
34	42	<1	<.1	33	<1	<1	<1	159	<1	<6	1.1
35	40	2.4	.15	25	<1	10	<1	191	30	7.1	<1
36	56	1.7	<.1	26	<1	<1	<1	131	<1	<10	3.9