

Date	pH	Spec. Cond. (uS/cm)	Total Dissolved Solids	Alkalinity	Cations				Anions					Sum	Sum Cations (meq/L)	Sum Anions (meq/L)	Major Cations (% as meq/L)				Major Anions (% as meq/L)			Water Type
					Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)				Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	
					(mg/L)								(% as meq/L)											
1/22/1973	7.5	203		62	24.8	3.4	12.3	2.0	0	62	20.8	14.5	0.09	140	2.10	1.86	59%	13%	25%	2%	55%	23%	22%	Calcium-Bicarbonate
10/21/1974	7.9	275		114	52.1	4.9	16.5	2.0	0	139	36.5	16.0	1.22	268	3.77	3.49	69%	11%	19%	1%	65%	22%	13%	Calcium-Bicarbonate
9/22/1975	8.3	390	273	112	56.0	4.5	12.0	2.0	0	112	30.0	16.0	<0.1	233	3.74	2.91	75%	10%	14%	1%	63%	21%	16%	Calcium-Bicarbonate
3/1/1976	7.3	210		88	39.3	4.6	20.5	2.0	0	88	30.0	30.0	0.72	215	3.28	2.91	60%	12%	27%	2%	50%	21%	29%	Calcium-Bicarbonate
10/13/1976	7.8	345		124	63.0	3.4	10.0	2.0	0	124	65.0	17.0	1.71	286	3.91	3.87	80%	7%	11%	1%	53%	35%	12%	Calcium-Bicarbonate
4/4/1977	7.4	360		120	60.1	2.4	8.0	2.0	0	120	53.0	17.0	0.65	263	3.60	3.55	83%	5%	10%	1%	55%	31%	14%	Calcium-Bicarbonate
12/5/1977	7.9	325		130	64.9	4.9	17.9	2.0	0	159	60.5	20.0	1.61	331	4.47	4.43	72%	9%	17%	1%	59%	28%	13%	Calcium-Bicarbonate
5/15/1978	7.5	270	189	88	44.8	2.4	14.0	2.0	0	88	34.7	22.0	1.30	209	3.09	2.79	72%	6%	20%	2%	52%	26%	22%	Calcium-Bicarbonate
5/22/1979	7.8	240	205	120	44.8	15.1	15.2	2.0	0	120	38.3	19.0	0.86	255	4.19	3.30	53%	30%	16%	1%	60%	24%	16%	Calcium-Bicarbonate
5/19/1980	7.9	295	199	104	42.5	3.4	19.8	2.0	0	104	20.4	27.0	0.58	220	3.31	2.89	64%	8%	26%	2%	59%	15%	26%	Calcium-Bicarbonate
5/11/1981	8.0	340	235	126	49.7	3.9	17.6	2.0	0	126	38.0	16.5	0.92	255	3.62	3.32	69%	9%	21%	1%	62%	24%	14%	Calcium-Bicarbonate
5/14/1982	7.9	250	111	80	33.5	2.4	7.3	2.0	0	80	27.5	15.0	0.62	168	2.24	2.31	75%	9%	14%	2%	57%	25%	18%	Calcium-Bicarbonate
5/1/1983	7.5	175	133	64	24.0	2.2	11.8	2.0	0	64	18.0	13.0	0.27	135	1.94	1.79	62%	9%	26%	3%	59%	21%	20%	Calcium-Bicarbonate
5/1/1984	8.0	305	227	102	48.1	3.4	17.4	2.0		102	32.0	15.0	0.93	221	3.49	2.76	69%	8%	22%	1%	61%	24%	15%	Calcium-Bicarbonate
5/1/1985	7.8	330	208	102	44.1	3.4	14.1	2.0		102	34.1	16.0	0.85	217	3.14	2.83	70%	9%	20%	2%	59%	25%	16%	Calcium-Bicarbonate
5/1/1986	8.1	290	78	94	40.1	4.3	15.5	2.0		94	32.0	20.0	0.62	209	3.08	2.77	65%	11%	22%	2%	56%	24%	20%	Calcium-Bicarbonate
5/19/1987	7.9	340	183	106	51.3	2.0	13.5	2.0		106	36.0	16.3		227	3.36	2.95	76%	5%	17%	2%	59%	25%	16%	Calcium-Bicarbonate
5/23/1988	8.2	380	209	112	53.7	3.4	17.6	2.0		112	50.9	15.9	1.43	257	3.78	3.34	71%	7%	20%	1%	55%	32%	13%	Calcium-Bicarbonate
4/10/1989	8.0	320	212	94	41.7	5.3	14.9	3.5		94	38.6	14.5	1.02	214	3.25	2.75	64%	13%	20%	3%	56%	29%	15%	Calcium-Bicarbonate
4/9/1990	7.5	385	281	124	55.0	5.3	16.0	2.4		124	56.8	15.0	1.33	276	3.94	3.64	70%	11%	18%	2%	56%	33%	12%	Calcium-Bicarbonate
4/8/1991	7.7	365	242	100	55.0	23.6	18.0	1.6		100	48.0	17.4	1.30	265	5.51	3.13	50%	35%	14%	1%	52%	32%	16%	Calcium-Bicarbonate
4/6/1992	8.0	345	224	92	47.0	3.4	16.4	1.9		92		17.0	0.82	179	3.39	1.99	69%	8%	21%	1%	76%	0%	24%	Calcium-Bicarbonate
10/4/1993	8.2	370	180	112	53.6	4.0	16.4	1.7		112	45.0	14.0	1.44	248	3.76	3.17	71%	9%	19%	1%	58%	30%	12%	Calcium-Bicarbonate
4/4/1994	8.1	355	250	112	52.0	4.5	17.3	1.7		112	43.0	17.0	1.25	249	3.76	3.21	69%	10%	20%	1%	57%	28%	15%	Calcium-Bicarbonate
4/17/1995	7.9	265	175	78	35.0	5.1	15.4	1.8		78	26.0	18.0	0.49	180	2.88	2.33	61%	15%	23%	2%	55%	23%	22%	Calcium-Bicarbonate
4/15/1996	7.9	280	142	80	36.0	4.1	15.0	1.8		80	27.0	18.0	0.68	183	2.83	2.38	63%	12%	23%	2%	55%	24%	21%	Calcium-Bicarbonate
4/28/1997	7.5	360	239	126	49.1	4.5	18.1	1.6		126	28.0	20.0	0.40	248	3.65	3.21	67%	10%	22%	1%	64%	18%	18%	Calcium-Bicarbonate
4/13/1998	7.4	200	151	53	21.9	3.2	13.3	2.0		53	22.0	16.0	0.50	132	1.99	1.78	55%	13%	29%	3%	49%	26%	25%	Calcium-Bicarbonate
8/3/1999	8.0	340	208	101	39.2	3.8	16.1	1.6		101	34.0	17.0	1.40	214	3.01	2.84	65%	10%	23%	1%	58%	25%	17%	Calcium-Bicarbonate
10/10/2000	7.5	305	220	102	44.8	3.4	15.8	1.9		102	38.0			206	3.25	2.46	69%	9%	21%	1%				Calcium-Bicarbonate
10/23/2001	8.0	415	252	109	50.8	4.0	15.8	1.6		109	47.0	16.0	2.00	246	3.59	3.22	71%	9%	19%	1%	56%	30%	14%	Calcium-Bicarbonate
11/5/02	8.0	300	284	110						110	16.0	48.0	2.10											
11/18/03	7.9	395	244	108						108	16.0	47.0	1.60											
11/2/04	7.8	350	240	108	52.9	4.0	16.2	1.8		108	18.0	47.0	1.50	249	3.72	3.47	71%	9%	19%	1%	51%	11%	38%	Calcium-Bicarbonate
11/16/05	7.9	345	232	110	48.6	3.6	14.5	2.0		110	16.2	41.3	1.50	238	3.40	3.31	71%	9%	19%	2%	55%	10%	35%	Calcium-Bicarbonate
N	35	35	29	35	33	33	33	33	13	35	34	34	32	33	33	33	33	33	33	33	32	32	32	
Min	7.3	175.0	78.0	53.0	21.9	2.0	7.3	1.6	0.0	53.0	16.0	13.0	0.1	131.9	1.9	1.8	50%	5%	10%	1%	49%	0%	12%	
Max	8.3	415.0	284.0	130.0	64.9	23.6	20.5	3.5	0.0	159.0	65.0	48.0	2.1	330.8	5.5	4.4	83%	35%	29%	3%	76%	35%	38%	
Avg	7.8	314.8	207.8	101.9	46.0	4.7	15.2	2.0	0.0	103.5	34.6	20.9	1.1	225.2	3.4	2.9	68%	11%	20%	2%	57%	24%	19%	

Source: City of Santa Cruz Water Dept.

Italics: Alkalinity used as a substitute for bicarbonate data where necessary (italics).

Potassium estimated as 2 mg/L where necessary (italics).