

Water Source	Data Source	Date	pH	Spec. Cond. (uS/cm)	Total Dis-solved Solids	Alka-linity	Cations				Anions					Sum	Sum Cations	Sum Anions	Major Cations				Major Anions				Water Type			
							Cal-cium (Ca)	Magne-sium (Mg)	So-dium (Na)	Potas-sium (K)	Car-bonate (CO ₃)	Bicar-bonate (HCO ₃)	Sul-fate (SO ₄)	Chlor-ide (Cl)	Ni-trate (NO ₃)				Cal-cium (Ca)	Magne-sium (Mg)	So-dium (Na)	Potas-sium (K)	Car-bonate (CO ₃)	Bicar-bonate (HCO ₃)	Sul-fate (SO ₄)	Chlor-ide (Cl)				
Wells	BD-40	WJE, 1992	Jul-92	7.3	935	600	410	115	32	26	2.3	0	410	31	37	1.1	654	9.56	8.41	60%	28%	12%	1%	0%	80%	8%	12%	Calcium-Bicarbonate		
		EMKO, 1999	May-99	7.5			200	75	7.3	10	2	0	200	20	12		326	4.83	4.03	77%	12%	9%	1%	0%	81%	10%	8%	Calcium-Bicarbonate		
	BD-41	WJE, 1992	Jul-92	7.4	810	520	370	90	28	42	5.2	0	370	33	13	1.3	583	8.76	7.12	51%	26%	21%	2%	0%	85%	10%	5%	Calcium-Bicarbonate		
		EMKO, 1999	May-99	7.5			210	79	6.7	10.5	2	0	210	20	12		340	5.00	4.20	79%	11%	9%	1%	0%	82%	10%	8%	Calcium-Bicarbonate		
	BD42	WJE, 1992	Jul-92	7.1	490	315	220	68	6.6	16	4.8	0	220	4	14	1.4	335	4.76	4.08	71%	11%	15%	3%	0%	88%	2%	10%	Calcium-Bicarbonate		
		Farallon, 2000	Sep-97	7.3	415			73	6.4	10.1	2.1		174	19	12	0.8	297	4.66	3.59	78%	11%	9%	1%	0%	80%	11%	9%	Calcium-Bicarbonate		
	BD-44	WJE, 1992	Jul-92	7.4	685	440	290	70	30	28	3.5	0	290	41	19	1.5	483	7.27	6.14	48%	34%	17%	1%	0%	77%	14%	9%	Mixed Bicarbonate		
		EMKO, 1999	May-99	7.3			235	74	12	15.5	3.2	0	235	23	13		376	5.44	4.70	68%	18%	12%	2%	0%	82%	10%	8%	Calcium-Bicarbonate		
	BD45	WJE, 1992	Jul-92	7.4	810	520	350	145	12	13	0.6	0	350	52	22	2.5	8.80	7.44	82%	11%	6%	0%	0%	77%	15%	8%	Calcium-Bicarbonate			
		Farallon, 2000	Sep-97	7.2	660			78	6.7	10.4	2		248	12	12	0.9	370	4.94	4.65	79%	11%	9%	1%	0%	87%	5%	7%	Calcium-Bicarbonate		
	QM-1	EMKO, 1999	May-99	9.0	940		200	24	12.5	165	14	0	200	205	69		690	9.76	9.49	12%	11%	74%	4%	0%	35%	45%	21%	Mixed Sodium		
		EMKO, 1999	May-99	7.1	840		270	165	16	32	3.5	0	270	205	23		715	11.03	9.34	75%	12%	13%	1%	0%	47%	46%	7%	Mixed Calcium		
QM-2	EMKO, 1999	May-99	11.8	670		130	6	<1	89	14	50	0	63	33		255	4.53	3.91	7%	0%	85%	8%	43%	0%	34%	24%	Mixed Sodium			
QM-3	EMKO, 1999	May-99	7.4	520		225	94	10	18	1.6	0	225	64	15		428	6.34	5.44	74%	13%	12%	1%	0%	68%	24%	8%	Calcium-Bicarbonate			
Springs	Liddell Spring	Todd, 1963	Jul-57	7.7	400	274		67	7.3	12			234	16	11	0	347	4.47	4.48	75%	13%	12%		0%	86%	7%	7%	Calcium-Bicarbonate		
		1962	7.4	393	227		70	7.8	5.4				227	16	9	0.6	336	4.37	4.31	80%	15%	5%		0%	86%	8%	6%	Calcium-Bicarbonate		
	City SC Water Dept. 1967-2006 (Table H-28)	N	36	37	28	37	36	36	36	36	5	37	33	37	35															
		Min	7.0	330	140	128	67.2	1.5	6	1.2	0	128	7.0	9.5	0.24															
		Max	7.6	545	350	236	116	33.5	19.8	3.9	0	259	51	24.0	4.6															
		Avg	7.4	460	290	206	82	7.3	11.0	2.0	0	209	29.4	12.6	2.2	349	4.98	4.38	78%	12%	9%	1%	0%	79%	12%	9%	6%	9%	Calcium-Bicarbonate	
	Farallon, 2000	WJE, 1992	Jul-92	7.8	520	335	215	75	9.9	11.0	1.5	0.0	215	30	10	2.6	355	5.07	4.43	74%	16%	9%	1%	0%	80%	14%	6%	Calcium-Bicarbonate		
		Sep-97	7.3	480			82	8.1	10.9	2.0			20	13	0.01	136	5.28		77%	13%	9%	1%								
	Plant Spring (Liddell #2 Sp, Quarry Sp)	Farallon, 2000	May-97	7.4	540		220	96	10.2	13.3	1.9		220	35	14	1.7	392	6.25	4.73	77%	13%	9%	1%	0%	76%	15%	8%	Calcium-Bicarbonate		
		Sep-97	7.8	440		190	77	6.6	10.2	2.1		190	16	11	0.7	314	4.89	3.76	79%	11%	9%	1%	0%	83%	9%	8%	Calcium-Bicarbonate			
	Whitesell Spring	WJE, 1992	Jul-92	7.2	230	145	30	20	3.5	17	1.4	0	30	19	18	28.0	137	2.06	1.40	48%	14%	36%	2%	0%	35%	28%	36%	Mixed		
		Farallon, 2000	May-97	5.9	180			13	2.4	16.5	1.6			16	10	34.6	94	1.60		40%	12%	45%	3%							
Sep-97	6.1	180		18	14	2.5	17.6	1.7		18	15	12	30.6	111	1.69	0.95	40%	12%	45%	3%	0%	31%	33%	36%	Mixed					
	Williams Spring	WJE, 1992	Jul-92	7.9	750	345	280	120	11	19	3.1	0	280	82	19	1.4	536	7.80	6.83	77%	12%	11%	1%	0%	67%	25%	8%	Calcium-Bicarbonate		
Pipe Spring	WJE, 1992	Jul-92	7.4	1,840	1,180	500	250	80	62	5.6	0	500	560	24	1.4	1,483	21.90	20.53	57%	30%	12%	1%	0%	40%	57%	3%	Calcium-Sulfate			
Dump Spring	WJE, 1992	Jul-92	7.5	2,300	1,470	350	365	110	63	6.8	0	350	1,000	100	4.2	1,999	30.18	29.38	60%	30%	9%	1%	0%	20%	71%	10%	Calcium-Sulfate			
Reggiardo Sp 1 (NASP-1)	Nolan Assoc., 2006	Jun-06	5.6	59	38	8	2	1.1	7.3	2.3	0	8	<2	12	<1	32	0.54	0.47	14%	17%	59%	11%	0%	28%	0%	72%	Sodium-Chloride			
Reggiardo Sp 2 (NASP-2)	Nolan Assoc., 2006	Jun-06	6.0	34	22	7	1	<1	5	1.1	0	7	<2	6.4	<1	21	0.30	0.30	18%	0%	72%	9%	0%	39%	0%	61%	Sodium-Chloride			
Martin Rd Sp (NASP-3)	Nolan Assoc., 2006	Jun-06	6.1	110	71	7	2	1.7	18	1.6	0	7	2	27	<1	59	1.06	0.92	9%	13%	74%	4%	0%	12%	5%	83%	Sodium-Chloride			
Streams	Reggiardo Creek	B&C, 1956	Mar-53	7.9	234	140	78	30	4.1	9.7			95	16	13	0	168	2.26	2.26	66%	15%	19%	0%	0%	69%	15%	16%	Calcium-Bicarbonate		
		Farallon, 2000	May-97	7.7	180			26	2.3	7.6	1.8			9	10	0.01	57	1.86		70%	10%	18%	2%							
		Sep-97	8.0	205		82	33	2.5	8.2	2			82	9	9	0.6	146	2.25	1.79	73%	9%	16%	2%	0%	75%	10%	14%	Calcium-Bicarbonate		
		at diversion dam upstream of swallow hole	Nov-97	7.8	380		114	46	7.2	18.2	2.4		114	47	21	<0.1	256	3.76	3.44	62%	16%	21%	2%	0%	54%	28%	17%	Calcium-Bicarbonate		
	Laguna Creek	Nov-97	8.0	210		80	31	2.4	7.2	1.8			80	9	10	0.6	142	2.09	1.78	73%	9%	15%	2%	0%	74%	11%	16%	Calcium-Bicarbonate		
		B&C, 1956	Mar-53	8.1	268	155	108	38	3.9	9.7			132	12	8	0	204	2.64	2.64	72%	12%	16%		0%	82%	9%	9%	Calcium-Bicarbonate		
		Todd, 1963	Jul-57	8.1	269	194		41	5.2	13			149	15	10	0	233	3.04	3.04	67%	14%	19%		0%	80%	10%	9%	Calcium-Bicarbonate		
		1962	8.6	257	159		42	5.3	6.1				135	14	9	0.6	212	2.80	2.76	75%	16%	9%		0%	80%	11%	9%	Calcium-Bicarbonate		
	USGS	Jun-72	7.6	307	195		46	5.2	9.4	1.8		0	166	15	8.7		252	3.18	3.28	72%	13%	13%	1%	0%	83%	10%	7%	Calcium-Bicarbonate		
		Aug-77	7.5	385	230		55	6.4	12	2.1		0	200	16	9.7	0.03	301	3.85	3.88	71%	14%	14%	1%	0%	84%	9%	7%	Calcium-Bicarbonate		
		City SC Water Dept. 1973-2006 (Table H-29)	N	34	34	28	33	32	32	31	32	13	33	33	33	32														
		Min	7.1	170	103	74	26	1.0	4	1.4	0	74	6.2	8.0	0.0															
Max	8.4	365	233	158	61	21	18.4	3.7	0	193	18	26	2.6																	
Avg	8.0	282	182	123	45	4.9	9.7	2.0	0	125	14	11.3	0.4	211	3.00	2.68	74%	11%	14%	2%	0%	76%	10%	14%	Calcium-Bicarbonate					
Majors Creek	B&C, 1956	Mar-53	8.0	300	205	98	42	7.8	12.0			120	43	15	0.0	240	3.26	3.29	64%	20%	16%	0%	0%	60%	27%	13%	Calcium-Bicarbonate			
	USGS	Aug-77	7.6	425	250		64	4	16	1.7	0	150	72	16	0.37	324	4.26	4.41	75%	8%	16%	1%	0%	56%	34%	10%				