

Well Name Abbreviation	Well Name(s)	Location (T.R.-Section)	State Drillers Report No.	Date Drilled	Ground Surface or Ref. Pt. (ft msl)	Well Diameter		Depths				Perforated or Screened Intervals					Pump		
						Bore	Casing	Bore	Completed Well	Sanitary Seal	Gravel Pack	Depth	Elevation	Length	Sum	Range	Aquifer (see key below)	Size (hp)	Suction Intake (ft bgs)
Active SLVWD Production Wells																			
QH-4A	Quail Hollow 4A	10S/2W-10C	748963	Jun-01	597	22	12	266	260	120	266	180 - 250	345 - 415	70	70	70	Tsm	20	237
QH-5A	Quail Hollow 5A	10S/2W-10C	724950	Feb-00	516	22	12	175	174	112	174	124 - 164	352 - 392	40	40	40	Tsm	20	155
Oly-2	Olympia 2	10S/02W-11P	082930	May-81	525	24	12	325	310	160	325	230 - 250	275 - 295	20	40	70	Tsm	60	279
												280 - 300	225 - 245	20					
Oly-3	Olympia 3	10S/02W-11P	339582	Sep-90	538	24	12	340	310	160	340	230 - 300	238 - 308	70	70	70	Tsm	60	279
Pas-6	Pasatiempo 6 (Old Probation replacement)	10S/2W-23L	339584	Jul-90	775	24	12	805	790	381	805	560 - 580	195 - 215	20	100	210	Tlo	60	700
												600 - 620	155 - 175	20					
												710 - 770	5 - 65	60					
Pas-7	Pasatiempo 7 (Estrella replacement)	10S/2W-23Q	339583	Jul-90	734	24	12	610	540	260	560	380 - 440	294 - 354	60	90	145	Tlo	60	535
												495 - 525	209 - 239	30					
MWd-2	Manana Woods 2	10S/2W-24G	306304	Feb-88	516	18	10	405	380	160	405	190 - 210	306 - 326	20	100	170	Tlo		
												240 - 280	236 - 276	40					
												320 - 360	156 - 196	40					
Inactive and Former SLVWD and Manaña Woods Production Wells																			
QH-3	Quail Hollow 3	10S/2W-10C			631							260					Tsm		
QH-4	Quail Hollow 4	10S/2W-10C	58454	May-71	596	24	12	280	250	50	280	180 - 250	346 - 416	70	70	70	Tsm		
QH-5	Quail Hollow 5	10S/2W-10C	74158	May-73	517	18	12	190	175	60	190	130 - 170	347 - 387	40	40	40	Tsm		
QH-7	Quail Hollow 7 (Marion)	10S/2W-3N	119329	May-75	437	18	10	175	156	50	175	116 - 146	291 - 321	30			Tsm		
QH-8*	Quail Hollow 8	10S/2W-10D	121200	Mar-80	407	16	8	155	130	50	130	100 - 130	277 - 307	30			Tsm		
Oly-1*	Olympia 1 liner installed	10S/02W-11P		1946	448	36	14	167	165	105	165	131 - 159	289 - 317	28	28	28	Tsm		
				121124	Jan-78		8					127 - 157	292 - 322	30	30	30			
Pas-1	Pasatiempo 1 (Old Probation)	10S/2W-23L		May-67	760			325				99 - 117	643 - 661	18	70	226	Tsm		
												174 - 193	567 - 586	19					
												292 - 325	435 - 468	33					
Pas-2*	Pasatiempo 2 (Hidden Glen)	10S/2W-25E	74184	Aug-73	722			150	140			100 - 140	582 - 622	40			Tsm/gr		
Pas-3	Pasatiempo 3 (Estrella)	10S/2W-24N		Jan-63	570			270	260			23 - 147	423 - 547	124	215	237	Tsm		
												169 - 260	310 - 401	91			Tlo		
Pas-4	Pasatiempo 4 (Champion)	10S/2W-24M	123328	Jul-74	630			140				100 - 105	525 - 530	5	25	40	Tsm		
												120 - 140	490 - 510	20					
Pas-5	Pasatiempo 5 (New Probation)	10S/2W-23L	115559	May-74	750	24	12	415	400	50	415	265 - 290	460 - 485	25	59	129	Tsm		
							8					343 - 363	387 - 407	20					
												380 - 394	356 - 370	14			Tlo		
MWds-1	Manana Woods 1	10S/2W-24F	13217	Jul-69	516	18	11	421	382	62	421	80 - 380	136 - 436	300	300	300	Tlo		

Active wells were drilled by reverse rotary; have stainless steel casing with wirewrap well screens; and were drilled by Maggiora except MWds-2 which was drilled by Landino.

Little or no information available for QH-1, -2, & -6.

*Maintained as monitoring well. Other former production wells destroyed.

Aquifer key: Tsm = Santa Margarita Sandstone; Tlo = Lompico Sandstone; gr = granitic rock.

Table 5-1a
SLVWD Active and Former Groundwater Production Wells
Construction Summary

Well Name Abbreviation	Well Name	Maximum Monthly Production ^a				Average Production (excludes years of partial operation) ^b				Average Water Levels ^c						Long-Term Specific Capacity ^d (gpm/ft)	Aquifer Test ^e		Avg. Pumping Level Relative to Top of Screens ^f (ft)	Approx. Percent of Year Operated ^g (%)	Typical Length of Daily Operation ^g (hrs)
		(gpm)	(MG/mth)	(AF/mth)	(mth-yr)	(gpm)	(MG/yr)	(AF/yr)	Period	Static (ft bgs)	Pumping (ft msl)	Differential (ft)	Period	Specific Capacity	Length (hrs)						
Active SLVWD Production Wells																					
QH-4A	Quail Hollow 4A	360	16	50	Jul-05	110	55	175	2001 - 06	175	194	422	403	19	2004 - 07	5.8			-14	30	20
QH-5A	Quail Hollow 5A	185	8	25	Jul-05	95	50	150	2001 - 06	108	133	408	383	25	2004 - 07	3.8	6.8	48	-9	30	20
Oly-2	Olympia 2	495	22	68	Aug-87	160	85	260	2001 - 06	188	220	337	305	32	2004 - 07	4.9	13.2	72	10	45	11
Oly-3	Olympia 3	430	19	59	Jul-93	100	50	160	2001 - 06	201	235	337	303	33	2004 - 07	3.0	13.3	5	-5	30	7
Pas-6	Pasatiempo 6	285	13	39	Aug-05	155	85	255	2001 - 06	418	444	357	331	25	2004 - 07	6.1	10.1	49	116	40	9
Pas-7	Pasatiempo 7	280	12	38	Aug-92	95	50	155	2001 - 06	384	456	350	278	72	2004 - 07	1.3	3.6	50	-76	45	12
MWD-2	Manana Woods 2	60	3	8	Jul-06	33	18	54	2006 - 07	170	230	346	286	60	2006 - 07	0.6	4.6	4	-40		
Sum		2,095	93	287		748	393	1,209													
Inactive and Former SLVWD and Manaña Woods Production Wells																					
QH-3	Quail Hollow 3	106	5	14	Jun-84	36	19	57	1984 - 94	207	226	424	405	19	1986 - 93	1.9	3.2	48			
QH-4	Quail Hollow 4	299	13	41	Jul-86	99	52	160	1984 - 00	178	202	418	394	24	1984 - 00	4.1	5.5	600			
QH-5	Quail Hollow 5	182	8	25	Oct-84	55	29	89	1984 - 97	109	127	408	390	18	1984 - 97	3.1	6.9	71			
QH-7	Quail Hollow 7	119	5	16 ⁱ	Aug-80	14	8	23 ⁱ	1984 - 91	?	?										
QH-8 ^h	Quail Hollow 8									77	103	330	304	26	1984 - 91	0.6					
										57	-	350	-	-	2004 - 07	-					
Oly-1 ^h	Olympia 1	69	3	10	Apr-88	44	14	27	1984 - 91	95	124	353	324	29	1984 - 91	1.5					
										94	354	-	-	-	2004 - 07	-					
Pas-1	Pasatiempo 1	144	6	19	Sep-89	33	17	53	1985 - 90	286	300	474	460	14	1985 - 90						
Pas-3	Pasatiempo 3	60	3	8	Oct-88	15	8	24	1988 - 90	117	188	456	382	71	1988 - 90	0.2					
Pas-4	Pasatiempo 4	41	2	6	May-88	9	5	15	1988	125	-	508	-	-	1988						
Pas-5	Pasatiempo 5	215	10	29	Jul-88	107	56	173	1984 - 94	261	284	491	466	23	1984 - 94	4.7					
MWDs-1	Manana Woods 1															0.9	2				

^a Indicates well's effective capacity. Maximum rates unlikely to occur and/or be sustainable simultaneously.

^b See Table A-2 for complete production record.

^c Source: SLVWD data base.

^d Average annual rate of production divided by difference between average static and pumping water levels.

^e From aquifer tests reviewed and conducted by Johnson (2000, 2001a, 2001b).

^f Negative value indicates feet of screen or perforations above the average pumping level.

^g Source: Well data sheets attached to SLVWD production well DWSAP's (2001, 2002, & 2005).

^h Maintained as monitoring well. Other former production wells destroyed.

ⁱ Combined QH-7 & QH-8 production record. QH-7 contribution relatively small.

Table 5-1b
SLVWD Active and Former Groundwater Production Wells
Performance Summary

Well Name Abbreviation	Well Name	Santa Margarita Sandstone			Monterey For- mation Thick- ness	Lompico Sandstone			Estimated Aquifer Properties ^b					
		Bottom Depth (same as Thick- ness)	Bot- tom Elev.	Avg. Satur- ated Thick- ness ^a		Depth to Top	Thickness		Trans- missiv- ity (ft ² /day)	Stora- tivity (dimensionless)	Speci- fic Yield	Tested Aquifer Thick- ness (ft)	Hydrau- lic Cond- uctivity (ft/day)	Aquifer Response
		(ft bgs)	(ft msl)	(ft)	Total		Avg. Satur- ated	(ft)						
Active SLVWD Production Wells														
QH-4A	Quail Hollow 4A	252	343	78	>1,000	>1,000	400							
QH-5A	Quail Hollow 5A	162	354	54	>1,000	>1,000	400	950			96	10	unconfined	
Oly-2	Olympia 2	305	220	117	>1,000	>1,000	400	>3,000	0.02	0.2	120	>25	unconfined	
Oly-3	Olympia 3	322	216	121	>1,000	>1,000	400	2,000			125	16	unconfined	
Pas-6	Pasatiempo 6	370	405	103 ^c	110	480	400	2,400	0.002	0.06	400	6	leaky	
Pas-7	Pasatiempo 7	230	504	0	0	230	310 240	2,400	0.001	0.06	320	7.5	leaky	
MWd-2	Manana Woods 2	210	306	40	0-10	220	~400							
Inactive and Former SLVWD Production Wells														
QH-3	Quail Hollow 3							430			70	7	unconfined	
QH-4	Quail Hollow 4	252	344					650	0.02	0.18	113	6	unconfined	
QH-5	Quail Hollow 5	170	347					600			70	10	unconfined	
QH-7	Quail Hollow 7	160	277											
QH-8 ^d	Quail Hollow 8	130	277											
Oly-1 ^d	Olympia 1	164	284											
Pas-5	Pasatiempo 5	300	450		60	360								

Italics indicate rough estimates.

^a Based on 2004-07 average water levels provided in Table 5-2.

^b From aquifer tests reviewed by Johnson (2001a, 2001b).

^c Pas-6 not screened in this aquifer zone.

^d Maintained as monitoring well. Other former production wells destroyed.

Table 5-1c
SLVWD Active and Former Groundwater Production Wells
Hydrostratigraphy and Estimated Aquifer Properties

Well Name Abbrev- iation	Well Name(s)	Location (T.R.- Section)	State Drillers Report No. (or source)	Date Drilled	Ground Surface or Ref. Pt. (ft msl)	Cas- ing Diam- eter (in)	Depths		Perforated or Screened Intervals			Average Annual Water levels ^a			Santa Margarita Sandstone			Mon- terey Fm. Thick- ness	Lom- pico Sand- stone Depth to Top (ft bgs)
							Bore	Com- pleted Well (ft bgs)	Depth (ft amsl)	Eleva- tion (ft)	Lengt h (ft bgs)	(ft msl)	Period	Bottom Depth (same as Thick- ness) (ft bgs)	Bot- tom Elev. (ft msl)	Average Satur- ated Thick- ness ^b (ft)			
Active SLVWD Monitoring Wells																			
MW-A	Quail Hollow MW-A	10S/2W-10H	517462	Jul-97	425	2	95	93	38 - 88	337 - 387	50	15	410	1997 - 07	86	339	71	>1,000	>1,000
MW-B	Quail Hollow MW-B	10S/2W-10B	517460	Jul-97	593	2	810	200	95 - 195	398 - 498	100	105	488	1997 - 07	202	391	97	>1,000	>1,000
MW-C	Quail Hollow MW-C	10S/2W-3Q	517461	Jul-97	650	2	250	225	120 - 220	430 - 530	100	148	502	1997 - 07	235	415	87	>1,000	>1,000
Pas-MW-1	Pasatiempo 6 MW-1	10S/2W-23L		Apr-90	775		780	660	600 - 660	115 - 175	60	424	351	2004 - 07	370	405	103	110	480
Pas-MW-2	Pasatiempo 6 MW-2						350	340	280 - 340	-340 - -280	60	267	508	2004 - 07					
Also Monitored by SLWVD																			
QHR	Quail Hollow Ranch	10S/2W-10B		1955	627	12		275	225 - 275	352 - 402	50	164	463	1997 - 07	275	352	111	>1,000	>1,000

See Tables 5-1, 5-2, & 5-3 for monitored former SLVWD production wells QH-8, Oly-1, and Pas-2.

^a See Table 5-__ for complete water-level record. Questionable readings during 2004-06 not included.

^b Based on average water levels provided in columns to left.

Table 5-2
SLVWD Groundwater Monitoring Wells

Well Name Abbreviation	Well Name(s)	Status	Location (T.R.-Section)	State Drillers Report No. (or source)	Date Drilled	Ground Surface or Ref. Pt. (ft msl)	Casing Diameter (in)	Depths				Perforated/Screened Intervals					Aquifer (see key below)	
								Test Bore	Completed Well	Sanitary Seal	Gravel Pack	Depth	Elevation	Length	Sum	Range		
								(ft bgs)				(ft amsl)					(ft)	
Lompico Co. Water District																		
Lom-1	Lompico 1	?	10S/2W-3A		1965	1050		462										
Lom-3	Lompico 3	?	10S/2W-3A	123315	Apr-74	1075	8	550	400				60 - 385	690 - 1015	325		fractured Tm	
Lom-5	Lompico 5	?	10S/2W-3A	74341	Sep-75	1095	8	410	400				70 - 400	695 - 1025	330			
Lom-7	Lompico 7	?	10S/2W-3A	37524	May-79	990	8	500	500				100 - 500	490 - 890	400			
Quail Hollow Wells																		
VR	Vista Robles	active	10S/2W-3P			640											Tsm	
QHR	Quail Hollow Ranch	monitored	10S/2W-10B	ref, 1975	1955	627	12		275				225 - 275	352 - 402	50		Tsm	
Active SVWD Production Wells																		
SV-9	City Hall 9	active	10S/2W-24C2	55609	Sep-80	528		415	365	130	560		155 - 195	333 - 373	40	90	210	Tsm*
													315 - 365	163 - 213	50			Tm SS
SV-10A	New Businessmen	active	10S/2W-24F		May-07	510		470	470				280 - 380	130 - 230	100	150	170	Tlo
													400 - 450	60 - 110	50			
SV-11A		active	10S/01W-18P		Jun-97	603	10	521	518	100	n/a		339 - 419	184 - 264	80	110	176	Tlo
													459 - 469	134 - 144	10			
													495 - 515	87.6 - 108	20			
SV-11B		active	10S/01W-18P		Jul-99	588	12	580	535	220	535		348 - 388	200 - 240	40	100	167	Tlo
													423 - 468	120 - 165	45			
													500 - 515	73 - 88	15			
SV-7A		active	10S/01W-17C		Oct-91	705	16	1680	1470	400	1470		700 - 900	-195 - 5	200	550	750	Tlo
													1000 - 1150	-445 - -295	150			Tb
													1250 - 1450	-745 - -545	200			
SV-3B		active	10S/01W-17E		Mar-95	672	16	1740	1740	600	1700		700 - 730	-58 - -28	30	660	970	Tm?
													880 - 1,050	-378 - -208	170			Tlo
													1,180 - 1,370	-698 - -508	190			Tb
													1,400 - 1,670	-998 - -728	270			
Inactive SVWD Production Wells																		
SV-10	Businessmen 10	destroyed (?)	10S/2W-24F4	55603	Jul-80	510		415	355				190 - 220	290 - 320	30	90	165	Tsm?
													240 - 270	240 - 270	30			Tlo
													325 - 355	155 - 185	30			
SV-11	Lompico	destroyed (?)	10S/01W-18P2		Jul-86	583	12	580	580	175	580		335 - 365	218 - 248	30	160	240	Tlo
													425 - 525	57.6 - 158	100			
													545 - 575	7.6 - 37.6	30			
SV-3	El Pueblo 3	destroyed	10S/1W19B3			568		400	400				220 - 240	328 - 348	20	95	180	Tsm
													250 - 265	303 - 318	15			
													280 - 300	268 - 288	20			
													335 - 355	213 - 233	20			Tlo
													380 - 400	168 - 188	20			
SV-3A	El Pueblo 3A	destroyed	10S/1W19B5			571		400	350				200 - 270	301 - 371	70	120	150	Tsm
													300 - 350	221 - 271	50			Tlo
SV-6	El Pueblo 6	destroyed	10S/1W19C			551		213	110				85 - 95	456 - 466	10	20	25	Tsm
													100 - 110	441 - 451	10			
SV-7	El Pueblo 7	destroyed	10S/1W19B4			569		383	332				200 - 240	329 - 369	40	100	132	Tsm
													250 - 270	299 - 319	20			Tlo
													292 - 332	237 - 277	40			
HO	Hidden Oaks	?	10S/2W-24G	94733	Jun-84	550		260	240				126 - 240	310 - 424	114			Tlo
Mount Hermon Association																		
MH-1	Mt. Hermon 1	standby (?)	10S/2W-23M1	330915	Oct-89	722		500					255 - 265	457 - 467	10	180	245	Tsm
													285 - 395	327 - 437	110			Tm
													440 - 500	222 - 282	60			Tlo
MH-2	Mt. Hermon 2	active	10S/2W-23M2	377584	Jul-92	740		750					295 - 305	435 - 445	10	55	170	Tsm
													405 - 420	320 - 335	15			Tm/Tlo
													435 - 465	275 - 305	30			Tlo
MH-3	Mt. Hermon 3	active	10S/2W-23B	e044004	Jul-06	580	8	1,200	980	100	1,200		680 - 800	-220 - -100	120	240	300	Tlo
													860 - 980	-400 - -280	120			Tu?
Hansen (formerly Kaiser) Quarry Wells																		
H-1	Hanson 1	monitored	10S/2W-24E1	88160	Jul-73	460		220					48 - 220	240 - 412	172			Tsm/Tm
H-2	Hanson 2	active	10S/2W-24E3	24305	May-58	464		180					60 - 125	339 - 404	65			
H-3	Hanson 3	active	10S/2W-24E4	55641	Oct-81	469		220					70 - 95	374 - 399	25	125	150	
													120 - 220	249 - 349	100			
H-4	Hanson 4	?	10S/2W-23Q	173901	Apr-85	667		487					197 - 217	450 - 470	20	200	280	Tsm?
													277 - 397	270 - 390	120			Tlo
													417 - 477	190 - 250	60			Tl
H-4A	Hanson 4A	active	10S/2W-23Q			667							240 - 360	307 - 427	120	190	220	Tlo
													390 - 460	207 - 277	70			Tl
Other Scotts Valley Wells																		
SL-1	Spring Lakes 1	?	10S/2W-24M	-	1963	560		180										Tsm/Tlo
SL-2	Spring Lakes 2	?	10S/2W-24L	122587	May-66	540		204					32 - 80	460 - 508	48			Tlo
SL-3	Spring Lakes 3	?	10S/2W-24M	92371	Mar-74	532		240					118 - 190	342 - 414	72			Tlo
SL-4	Spring Lakes 4	?	10S/2W-24P	63944	Jul-79	542		315					180 - 310	232 - 362	130			Tlo/Tl
SL-5	Spring Lakes 5	?	10S/2W-24M7	259599	Aug-88	530		600					145 - 225	305 - 385	80	120	135	Tlo
													240 - 280	250 - 290	40			
VDL-1	Vista Del Lago 1	?	10S/2W-24P1	97112	Sep-72	555		61					35 - 54	501 - 520	19			Tsm
VDL-2	Vista Del Lago	?	10S/2W-24Q	295647	May-88	550		580					240 - 260	290 - 310	20	220	320	Tlo/Tl
													340 - 460	90 - 210	120			Tl
													480 - 560	-10 - 70	80			gr
MV-2	Monteville 2	?	10S/2W-24B2	55682	Sep-72	525		137					82 - 112	413 - 443	30			Tsm
MV-3	Monteville 3	?	10S/2W-24B1	97108	Jun-82	480		385					105 - 375	105 - 375	270			Tsm/Tlo/Tl

Aquifer key: Tsm = Santa Margarita Sandstone; Tm = Monterey Formation (SS = sandstone interbeds); Tlo = Lompico Sandstone; Tb = Butano Sandstone; Tl = Locatelli Formation; Tu? = unidentified.

*Currently unsaturated.

Table 5-3a
Selected Non-SLVWD Production Wells
Construction Summary

Well Name Abbreviation	Well Name	Pump		Maximum Monthly Production ^a				Average Production ^b				Average Water Levels ^c						Long-Term Specific Capacity ^d (gpm/ft)	Aquifer Test ^e		Average Pumping Level Relative to Top of Screens ^f (ft)	
		Size (hp)	Suction Intake (ft)	(gpm)	(MG/mth)	(AF/mth)	(mth-yr)	(gpm)	(MG/yr)	(ac-ft/yr)	Period	Static (ft bgs)	Pumping (ft msl)	Static (ft msl)	Pumping (ft msl)	Difference (ft)	Period		Specific Capacity	Length (hrs)		
Lompico Co. Water District																						
Lom-1	Lompico 1																					
Lom-3	Lompico 3																					
Lom-5	Lompico 5																					
Lom-7	Lompico 7																					
Active-Well Sum ^g																						
Recently Active SVWD Production Wells																						
SV-9	City Hall 9	30	290	200	8.7	27	Aug-92	45	25	75	2000-06	193	306	335	222	>100	2004-07	<0.5	3.4	52	-151	
SV-10	Businessmen 10			500	22	67	Jul-99	190	100	305	2000-06	180	352	330	158	>100	2004-07	<2	5.8	24	-162	
SV-10A	New Businessmen			370	16	50	Oct-07	310	160	495	2007	-	265	-	245	-	2007	-			15	
SV-11	Lompico	30	410	750	33	100	Oct-93	255	135	415	1993-99	254	309	329	274	50	1993-99	5.2	7.7	45	26	
SV-11A		25	430	140	6.1	19	Aug-98	50	25	75	2000-06	296	380	307	223	>60	2004-07	<0.8	2.1	7	-41	
SV-11B		60	417	590	26	80	Jul-03	310	165	500	2000-06	288	405	300	183	>100	2004-07	<3	5.4	4	-57	
SV-7A		200	950	770	34	103	Jun-06	420	220	680	2000-06	470	753	235	-48	>250	2004-07	<1.7	~3		-53	
SV-3B		75	855	370	16	49	May-98	170	90	270	2000-06	402	654	270	18	>250	2004-07	<0.7	~1		46	
Currently Active Well Sum ^g				2,440	107	329		1,305	685	2,095												
Mount Hermon Association^h																						
MH-1	Mt. Hermon 1			200	8.7	27	Jun-04	120	65	195	2000-06	371	453	351	269	70	2004-07				-198	
MH-2	Mt. Hermon 2											380	407	360	333	30	2004-07			5.4	72	-112
MH-3	Mt. Hermon 3											225	247	355	333	>20	2007			6.3	27	433
Hansen (formerly Kaiser) Quarry Wells																						
H-2	Hanson 2			23	1.0	3.2	Jan-01	13	7	20	1996-03											
H-3	Hanson 3			234	10	31	Jul-02	70	37	115	1996-03											
H-4A	Hanson 4A			369	16	51	Sep-02	123	65	200	1996-03											
Sum				626	28	85		207	110	335												

^a Indicates well's effective capacity. Maximum rates unlikely to occur and/or be sustainable simultaneously.

^b See Table __ for complete production record.

^c Source: SVWD and MHA data bases.

^d Average annual rate of production divided by difference between average static and pumping water levels.

^e From aquifer tests reviewed by Johnson (2001a, 2001b) and recent well completion reports. In some cases aquifer saturated thickness is now significantly less than when tested (e.g., SV-9 & -10).

^f Negative value indicates feet of screen or perforations above the average pumping level.

^g See Table 5-3a for well status.

^h Individual well pumping records not available.

Table 5-3b
Selected Non-SLVWD Production Wells
Performance Summary

Well Name Abbreviation	Well Name(s)	Santa Margarita Sandstone				Monterey Fm. Thick-ness	Lompico Sandstone Depth to Top	Estimated Aquifer Properties						
		Depth/ Thick-ness	Bot- tom Elev.	Thickness				Aquifer (see key below)	Trans- missiv- ity (ft ² /day)	Stora- tivity (dimensionless)	Speci- fic Yield	Effective Aquifer Thicknes (ft)	Hydrau- lic Cond- uctivity (ft/day)	Aquifer Response
				Total	Avg. Sat.									
Lompico Co. Water District														
Lom-1	Lompico 1	144	906	144				Tm						
Lom-3	Lompico 3	90	985	90				Tm						
Lom-5	Lompico 5	76	1019	76				Tm						
Lom-7	Lompico 7	5	985	5				Tm						
SVWD Production Wells														
SV-9	City Hall 9	210	318				290	Tm SS	2,100	0.01		400	6	leaky
SV-10	Businessmen 10	115	395				115	Tsm/Tlo	2,300			400	6	leaky
SV-10A	New Businessmen	280	230					Tlo/Tb						
SV-11	Lompico							Tlo	2,300	0.0007		400	6	confined
SV-11A								Tlo				350		
SV-11B								Tlo	2,500	0.001	0.06	350	6	semi-confined
SV-7A								Tlo/Tb						
SV-3A	El Pueblo 3A							Tsm/Tlo						
TW-19								deep Tlo	300			300	1	
Mount Hermon Association														
MH-1	Mt. Hermon 1	200	522				270	Tlo	<2,000	0.0006		400	4	confined
MH-2	Mt. Hermon 2	270	470				390	Tlo	<2,000	0.0003	0.05	400	5	confined
MH-3	Mt. Hermon 3	88	492			317	405	Tlo/Tu?	<2,000					
Hansen (formerly Kaiser) Quarry Wells														
H-4	Hanson 4	210	457				210	Tsm/Tlo/Tl	5,000	0.02	0.04	175	20	unconfined
Other Quail Hollow Wells														
QHR	Quail Hollow Ranch	275	352	275				Tsm	760			120	6.5	unconfined

Aquifer key: Tsm = Santa Margarita Sandstone; Tm = Monterey Formation (SS = sandstone interbeds); Tlo = Lompico Sandstone; Tb = Butano Sandstone; Tl = Locatelli Formation; Tu? = unidentified.

*Currently unsaturated.

Table 5-3c
Selected Non-SLVWD Production Wells
Hydrostratigraphy and Estimated Aquifer Properties

Period (CY's)	Period Length (yrs)	Ben Lomond Rainfall as Percent of Average	Data Filter (see key)	Groundwater Production																											
				Quail Hollow Wells						Olympia Wells					QH + Oly				Pasatiempo Wells							Mañana Woods 2 ^d	All Wells				
				QH-3	QH-7 & -8	QH-4, -4A	QH-5, -5A	QH Well Total ^a	QH Well Sum ^b	Oly-1	Oly-2	Oly-3	Oly Well Total ^a	Oly Well Sum ^b	QH + Oly Total ^a	QH Total + Oly Total ^c	QH Sum + Oly Sum ^b	Pas-1	Pas-3	Pas-4	Pas-5	Pas-6	Pas-7	Paso Well Total ^a	Paso Well Sum ^b		Total ^a	Sum ^c	Sum ^b		
				Average and Maximum Annual Production																											
(AF/yr)																															
1984-2008 Avg	25	97%	*	53	21	170	101	303	345	21	272	133	388	426	691	771	40	16	15	120	178	190	338	560	54	1,035	1,084	1,385			
			‡	57	23	170	110	361		44	272	140	456		816		53	24	15	173	207	199	671		54	1,542					
1995-2008 Avg	14	116%	*	2		155	106	261		0.2	256	143	400	400	661	661				0.5	215	186	402		54	1,072	1,117	1,117			
			‡			155	124	279			256	143	400		678						215	186	401		54	1,134					
2001-2008 Avg	8	108%	*			190	151	341			275	182	457		798						255	149	404		54	1,218	1,256				
1987-1994 Avg (drought)	8	74%	*	50	22	179	86	329	337	27	334	105	427	466	756	803	54	16	15	106	47	204	274	443	54	1,029	1,084	1,301			
			‡	50	27	179	86	342		42	334	128	504		845		68	24	15	160	90	257	613		54	1,513					
1984-2008 Max	35			98	85	264	165	517	612	66	449	244	550	760	1,067	1,371	130	25	15	217	311	296	444	995	54	1,236	1,565	2,421			
(MG/yr)																															
1984-2008 Avg	25	97%	*	17	7	55	33	99	112	7	89	43	126	139	225	251	13	5.32	4.96	39	58	62	110.1	182.3	18	337	353	451			
			‡	19	8	55	36	118		14	89	46	148		266		17	8	5	56	67	65	219		18	502					
1995-2008 Avg	14	116%	*	0.6		50.5	35	85		0.1	84	47	130	130	216	216				0.2	70	61	131		18	349	364	364			
			‡			51	40	91			84	47	130		221						70	61	131		18	370					
2001-2008 Avg	8	108%	*			62	49	111			89	59	149		260						83	49	132		18	397	409				
1987-1994 Avg (drought)	8	74%	*	16	7	58	28	107	110	9	109	34	139	152	246	262	18	5.32	4.96	35	15	67	89.28	144.5	18	335	353	424			
			‡	16	9	58	28	111		14	109	42	164		275		22	8	5	52	29	84	200		18	493					
1984-2008 Max	35			32	28	86	54	168	199	21	146	80	179	248	348	447	42	8	5	71	101	97	145	324	18	403	510	789			
(gpm)																															
1984-2008 Avg	25	97%	*	33	12.8	105	63	188	214	13	169	83	240	264	428	478	25	10.1	9.43	74	110	118	209.4	346.7	34	641	671	858			
			‡	36	14	105	68	224		27	169	87	282		506		33	15	9	107	128	123	416		34	955					
1995-2008 Avg	14	116%	*	1.2		96	66	162		0.1	159	89	248	248	410	410				0.3	133	115	249		34	664	692	692			
			‡			96	77	173			159	89	248		420						133	115	249		34	703					
2001-2008 Avg	8	108%	*			118	93	211			170	113	283		494						158	92	250		34	755	778				
1987-1994 Avg (drought)	8	74%	*	31	14	111	53	204	209	17	207	65	264	289	468	498	34	10	9	66	29	127	170	275	34	638	671	806			
			‡	31	16	111	53	212		26	207	79	312		524		42	15	9	99	56	159	380		34	937					
1984-2008 Max	35			61	53	163	102	320	379	41	278	151	341	471	661	850	81	15	9	134	193	184	275	616	34	766	970	1,500			
Maximum Monthly Production																															
Period of Record (1972-2008)	(AF/month)			14	16	50	25	75	105	10	68	59	107	136	157	181	241	19	8	6	29	39	38	60	140	8	209	249	389		
	(MG/month)			5	5	16	8	24	34	3	22	19	35	44	51	59	79	6	3	2	10	13	12	19	46	3	68	81	127		
	(gpm)			106	119	362	183	545	766	69	494	429	779	993	1,147	1,324	1,759	144	60	41	215	286	279	435	1,020	60	1,525	1,820	2,840		
Percent of Average Annual Production																															
				QH-3	-7,-8	-4,-4A	-5,-5A	QH	Oly-1	-2	-3	Oly	QH	Oly	QH+Oly	Pas-1	-3	-4	-5	-6	-7	Paso		QH+Oly	Pas+MWds						
1984-2008 Avg	23	97%	*	15%	6%	49%	29%	100%	5%	64%	31%	100%	45%	55%	100%	7%	3%	3%	21%	32%	34%	100%		56%	44%	100%					
			‡	16%	6%	47%	30%	100%	10%	60%	31%	100%	44%	56%	100%	8%	4%	2%	26%	31%	30%	100%		53%	47%	100%					
1995-2008 Avg	12	116%	*	1%		59%	41%	101%		64%	36%	100%	40%	60%	100%				0%	54%	46%	100%		59%	41%	100%					
			‡			56%	44%	100%		64%	36%	100%	41%	59%	100%					54%	46%	100%		60%	40%	100%					
2001-2008 Avg	6	108%	*			56%	44%	100%		60%	40%	100%	43%	57%	100%					63%	37%	100%		64%	36%	100%					
1987-1994 Avg (drought)	8	74%	*	15%	6%	53%	25%	100%	6%	72%	23%	100%	42%	58%	100%	12%	4%	3%	24%	11%	46%	100%		62%	38%	100%					
			‡	15%	8%	52%	25%	100%	8%	66%	25%	100%	40%	60%	100%	11%	4%	2%	26%	15%	42%	100%		56%	44%	100%					

* Years with complete monthly record.

‡ Excluding years when wells were partially inoperable and/or monthly records incomplete.

^a Actual total of all wells. Mañana Woods not included in SLVWD production prior to 2006.

^b Sum of individual wells (when different than actual totals). Sums fully represents Mañana Woods.

^c Sum of well-group totals (when different than actual total or sum of individual wells).

^d Reflects SLVWD operation of Mañana Woods during July 2006 to June 2007. Prior to SLVWD operation, production averaged 60 TO 70 af/YR.

**Table 5-5
Average and Maximum SLVWD Annual and
Monthly Rates of Groundwater Production**

Month	Quail Hollow Wells				Olympia Wells				QH & Oly Total	Pasatiempo Wells				Mañana Woods 2	All Wells Total	Quail Hollow Wells				Olympia Wells				QH & Oly Total	Pasatiempo Wells				Mañana Woods 2	All Wells Total	
	QH-3	QH-4, -4A	QH-5, -5A	Total	Oly-1	Oly-2	Oly-3	Total		Pas-5	Pas-6	Pas-7	Total			QH-3	QH-4, -4A	QH-5, -5A	Total	Oly-1	Oly-2	Oly-3	Total		Pas-5	Pas-6	Pas-7	Total			Mañana Woods 2
1984-2008 Monthly Averages*																															
Jan	2.9	6.7	3.4	11	1.5	5.6	2.6	8.1	20	9.5	7.4	11	17		36	1.0	2.2	1.1	3.7	0.5	1.8	0.9	2.6	6.4	3.1	2.4	3.6	5.4		12	
Feb	2.1	4.7	1.3	7.1	0.6	4.3	0.7	5.1	12	6.7	6.2	12	16		28	0.7	1.5	0.4	2.3	0.2	1.4	0.2	1.7	4.0	2.2	2.0	3.8	5.2		9.2	
Mar	1.4	3.6	0.8	5.2	1.7	1.7	0.4	2.5	7.7	7.2	9.8	14	20		28	0.5	1.2	0.3	1.7	0.6	0.5	0.1	0.8	2.5	2.4	3.2	4.4	6.6		9.2	
Apr	2.9	6.6	3.3	11.3	2.4	5.8	0.0	6.6	18	10	13	16	26		44	0.9	2.2	1.1	3.7	0.8	1.9	0.0	2.1	5.8	3.3	4.3	5.1	8.3		14	
May	4.7	15	9.2	26	4.1	15	3.2	18	44	12	17	21	33		78	1.5	4.8	3.0	8.6	1.3	4.7	1.1	5.9	14	3.9	5.5	6.9	11		25	
Jun	6.9	18	13	35	4.6	29	1.5	42	77	12	21	21	37		115	2.3	6.0	4.2	11	1.5	9.6	5.0	14	25	3.9	6.9	6.8	12		37	
Jul	7.5	24	15	43	6.0	44	28	66	109	15	25	23	42	6.7	151	2.4	8	4.7	14	2.0	14	9.0	21	35	4.8	8.1	7.4	14	2.2	49	
Aug	7.7	22	15	42	7.2	47	33	73	116	14	24	22	41	5.9	157	2.5	7.3	5.0	14	2.3	15	11	24	38	4.6	7.8	7.2	13	1.9	51	
Sep	6.6	21	14	38	6.4	44	31	68	106	13	20	19	36	5.6	142	2.2	6.9	4.4	13	2.1	14	10.0	22	35	4.2	6.4	6.2	12	1.8	46	
Oct	6.4	18	12	33	6.1	37	20	54	87	10	18	16	31	4.3	119	2.1	5.9	3.8	11	2.0	12	6.5	17	28	3.4	5.8	5.2	10	1.4	39	
Nov	4.5	17	9.0	29	4.2	26	3.9	30	59	7.5	11	13	22	3.1	81	1.5	5.6	2.9	9.4	1.4	8.5	1.3	9.8	19	2.5	3.6	4.2	7.1	1.0	26	
Dec	3.6	12	6.5	20	2.6	13	1.6	15	36	5.9	8.8	11	19	2.5	55	1.2	4.0	2.1	6.6	0.9	4.4	0.5	5.0	12	1.9	2.9	3.7	6.1	0.8	18	
Sum	57	170	101	303	48	272	139	388	691	123	181	198	338	28	1,035	19	55	33	99	15	89	45	126	225	40	59	65	110	9.2	337	
1995-2008 Monthly Averages																															
Jan		4.5	2.3	6.9		4.5	2.3	6.8	14		8.9	11	20		34		1.5	0.7	2.3		1.5	0.7	2.2	4.5		2.9	3.5	6.4		11.0	
Feb		1.7	0.7	2.4		0.9	0.8	1.7	4.1		7.5	11	18		23		0.6	0.2	0.8		0.3	0.2	0.6	1.3		2.5	3.4	5.9		7.4	
Mar		2.8	0.5	3.4		0.9	0.5	1.4	4.8		12	13	25		30		0.9	0.2	1.1		0.3	0.2	0.5	1.6		3.9	4.3	8.1		9.9	
Apr		7.8	3.6	11.4		3.0	0.0	3.0	14		16	15	30		45		2.5	1.2	3.7		1.0	0.0	1.0	4.7		5.1	4.7	9.9		15	
May		12	10.5	23		16	3.9	20	42		20	20	40		83		3.9	3.4	7.3		5.2	1.3	6.5	14		6.6	6.5	13		27	
Jun		16	13	29		30	13.3	43	73		24	20	44		117		5.3	4.2	9.5		9.8	4.3	14	24		7.9	6.5	14		38	
Jul		24	15	39		43	27	70	109		29	21	50	6.7	161		7.8	5.0	13		14	8.7	23	36		9.5	6.9	16	2.2	52	
Aug		22	15	37		43	33	77	114		28	20	48	5.9	163		7.0	5.0	12		14	11	25	37		9.1	6.5	16	1.9	53	
Sep		20	14	35		40	33	73	107		24	18	42	5.6	151		6.7	4.6	11		13	11	24	35		7.8	6.0	14	1.8	49	
Oct		16	12	29		36	23	59	87		22	15	37	4.3	125		5.3	4.1	9.4		12	7.4	19	28		7.1	4.9	12	1.4	41	
Nov		17	10	27		27	4.9	32	58		14	11	25	3.1	84		5.5	3.2	8.7		8.7	1.6	10.3	19		4.4	3.7	8.1	1.0	27	
Dec		10.6	8.3	19		12.4	1.9	14	33		10	12	22	2.5	55		3.5	2.7	6.2		4.0	0.6	4.6	10.8		3.2	3.8	7.0	0.8	18	
Sum		155	106	261		256	143	400	661		215	186	402	28	1,072		51	35	85		84	47	130	216		70	61	131	9.2	349	
2001-2008 Monthly Averages																															
Jan		4.7	4.0	8.7		2.4	1.2	3.6	12.3		10	9.6	20		33		1.5	1.3	2.8		0.8	0.4	1.2	4.0		3	3.1	6.4		10.6	
Feb		1.4	1.2	2.7		0.6	1.3	1.8	4.5		###	8.2	18		24		0.5	0.4	0.9		0.2	0.4	0.6	1.5		3.3	2.7	6.0		7.7	
Mar		1.5	0.9	2.4		0.3	0.3	0.6	3.0		15	10	25		29		0.5	0.3	0.8		0.1	0.1	0.2	1.0		4.9	3.3	8.3		9.5	
Apr		8.8	6.3	15.1		2.0	0.0	2.0	17		21	9.1	30		48		2.9	2.0	4.9		0.6	0.0	0.6	5.6		6.7	3.0	9.7		16	
May		14	16	31		16	7	23	54		25	18	43		98		4.7	5.4	10.1		5.3	2.2	7.5	18		8.1	5.9	14		32	
Jun		19	20	39		33	21	54	93		29	16	45		140		6.3	6.5	13		10.6	6.8	17	30		9.5	5.3	15		46	
Jul		29	22	51		44	39	82	133		33	17	50	6.7	185		9.3	7.2	17		14	13	27	43		11	5.5	16	2.2	60	
Aug		27	19	46		48	43	90	136		31	17	48	5.9	186		8.8	6.2	15		15	14	29	44		10	5.4	16	1.9	61	
Sep		27	19	46		43	39	82	128		28	15	42	5.6	172		8.8	6.1	15		14	13	27	42		9.0	4.7	14	1.8	56	
Oct		20	16	36		42	24	66	102		25	12	37	4.3	141		6.4	5.3	12		14	7.8	22	33		8.2	3.9	12	1.4	46	
Nov		23	13	36		32	5.7	38	73		16	9.2	25	3.1	99		7.4	4.2	12		10	1.9	12	24		5.1	3.0	8.1	1.0	32	
Dec		15	12	27		13	1.2	14	42		12	8.4	21	2.5	63		4.9	4.0	8.9		4.2	0.4	4.6	14		4.1	2.7	6.8	0.8	21	
Sum		190	151	341		275	182	457	798		255	149	404	28	1,218		62	49	111		89	59	149	260		83	49	132	9.2	397	
1987-1994 Monthly Averages (drought)																															
Jan	2.3	10	5.9	18	1.7	10	3.8	13	32	10	13	13		45	0.8	3.3	1.9	6.0	0.6	3.2	1.2	4.3	10	3.3	4.3	4.4			15		
Feb	1.9	9.0	1.5	13	0.7	11	0.6	12	25	9.9	16	14		39	0.6	2.9	0.5	4.3	0.2	3.5	0.2	3.9	8.1	3.2	5.2	4.6			13		
Mar	1.5	5.1	1.1	8.2	0.7	3.4	0.0	4.0	12	9.7	16	15		27	0.5	1.7	0.4	2.7	0.2	1.1	0.0	1.3	4.0	3.2	5.2	4.8		8.8			
Apr	2.6	6.6	3.8	14	2.2	13	0.0	1.5	29	16	20	21		49	0.9	2.1	1.2	4.4	0.7	4.2	0.0	5.0	9.4	5.1	6.6	6.7			16		
May	3.5	20	6.6	31	2.7	16	0.8	19	51	16	27	24		74	1.1	6.6	2.1	10	0.9	5.3	0.3	6.3	17	5.3	8.7	7.7			24		
Jun	5.6	18	11	36	2.2	33	23	47	83	15	26	29		113	1.8	5.9	3.7	12	0.7	11	7.5	15	27	4.8	8.5	10			37		
Jul	6.7	21	12	42	3.5	48	30	66	108	21	31	33		141	2.2	7.0	3.8	14	1.1	16	9.9	22	35	6.7	10	11			46		
Aug	6.8	21	14	43	3.8	54	32	74	118	17	31	34		152	2.2	6.7	4.6	14	1.2	18	11	24	38	5.6	10	11		49			
Sep	6.2	20	11	39	2.9	53	23	67	106	15	21	30		135	2.0	6.4	3.6	13	1.0	17	7.5	22	34	5.0	6.8	10			44		
Oct	5.5	20	10	37	3.6	41	11	51	87	12	20	25		112	1.8	6.6	3.1	12	1.2	13	3.7										

Season	Month	Quail Hollow Wells				Olympia Wells				Quail Hollow and Olympia Total	Pasatiempo Wells				All Wells Total						
		QH-3	QH-4, -4A	QH-5, -5A	Total	Oly-1	Oly-2	Oly-3	Total		Pas-5	Pas-6	Pas-7	Total							
Percent of Each Well's Annual Production																					
1984-2008 Monthly Averages*																					
Winter	Jan	5%	4%	3%	4%	8%	3%	2%	2%	2%	4%	3%	6%	8%	4%	6%	5%	16%	4%	9%	
	Feb	4%	3%	1%	2%		1%	2%	1%	1%		2%		2%	5%	3%	6%		5%		3%
	Mar	2%	2%	1%	2%		4%	1%	0%	1%		1%		1%	6%	5%	7%		6%		3%
Spring	Apr	5%	4%	3%	4%	24%	5%	2%	0%	2%	17%	3%	20%	8%	7%	8%	8%	28%	4%	23%	
	May	8%	9%	9%	9%		9%	5%	2%	5%		6%		10%	9%	11%	10%		8%		
	Jun	12%	11%	13%	12%		10%	11%	11%	11%		11%		10%	12%	11%	11%		11%		11%
Summer	Jul	13%	14%	14%	14%	41%	13%	16%	20%	17%	53%	16%	48%	12%	14%	12%	12%	35%	15%	44%	
	Aug	13%	13%	15%	14%		15%	17%	24%	19%		17%		11%	13%	11%	12%		15%		
	Sep	11%	12%	13%	13%		13%	16%	22%	17%		15%		11%	11%	10%	11%		14%		
Autumn	Oct	11%	11%	12%	11%	27%	13%	14%	14%	14%	26%	13%	26%	8%	10%	8%	9%	21%	11%	25%	
	Nov	8%	10%	9%	10%		9%	10%	3%	8%		9%		6%	6%	6%	6%		8%		
	Dec	6%	7%	6%	7%		6%	5%	1%	4%		5%		5%	5%	6%	6%		5%		
1995-2008 Monthly Averages																					
Winter	Jan		3%	2%	3%	5%		2%	2%	2%	2%		3%		4%	6%	5%	16%	3%	8%	
	Feb		1%	1%	1%		0%	1%	0%	2%		1%		4%	6%	5%	2%				
	Mar		2%	0%	1%		0%	0%	0%	1%		1%		6%	7%	6%	3%				
Spring	Apr		5%	3%	4%	24%		1%	0%	1%	17%		20%		7%	8%	8%	29%	4%	23%	
	May		8%	10%	9%		6%	3%	5%	6%		9%		11%	10%	8%					
	Jun		10%	12%	11%		12%	9%	11%	11%		11%		11%	11%	11%	11%				
Summer	Jul		15%	15%	15%	42%		17%	19%	17%	55%		50%		14%	11%	13%	35%	15%	44%	
	Aug		14%	14%	14%		17%	23%	19%	17%		13%		11%	12%	15%					
	Sep		13%	13%	13%		15%	23%	18%	16%		11%		10%	11%	14%					
Autumn	Oct		11%	12%	11%	29%		14%	16%	15%	26%		27%		10%	8%	9%	21%	12%	25%	
	Nov		11%	9%	10%		10%	3%	8%	9%		6%		6%	6%	8%					
	Dec		7%	8%	7%		5%	1%	4%	5%		5%		6%	5%	5%					
2001-2008 Monthly Averages																					
Winter	Jan		2%	3%	3%	4%		1%	1%	1%	1%		2%		4%	6%	5%	16%	3%	7%	
	Feb		1%	1%	1%		0%	1%	0%	1%		1%		4%	6%	5%	2%				
	Mar		1%	1%	1%		0%	0%	0%	0%		0%		6%	7%	6%	2%				
Spring	Apr		5%	4%	4%	25%		1%	0%	0%	17%		21%		8%	6%	7%	29%	4%	23%	
	May		8%	11%	9%		6%	4%	5%	7%		10%		12%	11%	8%					
	Jun		10%	13%	12%		12%	12%	12%	12%		12%		11%	11%	11%	11%				
Summer	Jul		15%	15%	15%	42%		16%	21%	18%	56%		50%		13%	11%	12%	35%	15%	45%	
	Aug		14%	13%	14%		17%	23%	20%	17%		12%		11%	12%	15%					
	Sep		14%	13%	13%		16%	21%	18%	16%		11%		10%	10%	14%					
Autumn	Oct		10%	11%	11%	29%		15%	13%	14%	26%		27%		10%	8%	9%	21%	12%	25%	
	Nov		12%	9%	10%		12%	3%	8%	9%		6%		6%	6%	8%					
	Dec		8%	8%	8%		5%	1%	3%	5%		5%		6%	5%	5%					
1987-1994 Monthly Averages (drought)																					
Winter	Jan	5%	5%	7%	5%	12%	6%	3%	3%	3%	7%	4%	9%	6%		5%	5%	16%	4%	11%	
	Feb	4%	5%	2%	4%		3%	3%	0%	3%		3%		6%		6%	5%		4%		
	Mar	3%	3%	1%	2%		2%	1%	0%	1%		2%		6%		6%	5%		3%		
Spring	Apr	5%	4%	4%	4%	24%	8%	4%	0%	4%	19%	4%	20%	10%		8%	8%	27%	5%	23%	
	May	7%	11%	7%	9%		9%	5%	1%	5%		6%		10%	10%	9%	7%				
	Jun	11%	10%	13%	11%		8%	10%	18%	11%		10%		9%	10%	11%	11%				
Summer	Jul	13%	12%	13%	12%	37%	12%	15%	24%	16%	49%	14%	42%	13%		12%	12%	36%	14%	41%	
	Aug	13%	11%	16%	13%		17%	25%	18%	15%		11%			12%	13%	15%				
	Sep	12%	11%	13%	11%		10%	16%	18%	16%		13%		10%		8%	11%		13%		
Autumn	Oct	11%	11%	11%	11%	28%	13%	13%	9%	12%	24%	11%	25%	7%		8%	9%	22%	11%	25%	
	Nov	8%	10%	8%	10%		9%	8%	1%	7%		8%		7%	7%	7%	8%				
	Dec	7%	9%	6%	8%		6%	6%	1%	5%		6%		6%	6%	6%	6%				

* Average for years of regular operation only.
Annual maxima highlighted.

Table 5-7
Average SLVWD Monthly and Quarterly Groundwater Production Expressed as a Percent of Annual Production

Rank	Groundwater Production																									
	Quail Hollow Wells						Olympia Wells					QH & Oly Wells			Pasatiempo Wells						All Wells					
	QH-3	QH-7 & -	QH-4, -4A	QH-5, -5A	Total	Sum ^a	Oly-1	Oly-2	Oly-3	Total	Sum ^a	Total	Sum ^b	Sum ^a	Pas-1	Pas-3	Pas-4	Pas-5	Pas-6	Pas-7	Total	Sum ^a	Total	Sum ^b	Sum ^a	
	(AF/CY)																									
1	98 (1980)	85 (1980)	264 (1986)	165 (2006)	517 (1980)	612	66 (1987)	449 (1990)	244 (2001)	550 (2001)	760	951 (1987)	1,067	1,371	130 (1990)	25 (1988)	15 (1988)	217 (1987)	311 (2005)	296 (1996)	444 (2002)	995	1,236 (2004)	1,542	2,397	
2	94 (1988)	44 (1988)	239 (1988)	160 (2004)	507 (1988)	538	62 (1988)	397 (1987)	190 (1996)	525 (1991)	649	922 (1988)	1,031	1,187	94 (1989)	22 (1989)		205 (1984)	296 (2004)	282 (1992)	441 (2001)	900	1,230 (2002)	1,473	2,086	
3	89 (1985)	33 (1985)	233 (2004)	152 (2003)	488 (1987)	506	54 (1986)	370 (1991)	188 (2003)	496 (1990)	612	830 (1991)	984	1,118	25 (1991)	2 (1990)		198 (1986)	237 (2006)	281 (1995)	439 (2003)	742	1,212 (2001)	1,423	1,861	
4	86 (1984)	31 (1987)	224 (1987)	151 (1987)	449 (1986)	492	51 (1985)	353 (1988)	181 (2000)	493 (1994)	584	829 (2004)	942	1,077	24 (1986)			185 (1985)	232 (2002)	264 (1993)	433 (2000)	705	1,189 (2003)	1,375	1,782	
5	82 (1987)	21 (1991)	222 (1980)	149 (2005)	435 (1985)	474	35 (1984)	346 (1997)	166 (2004)	463 (1987)	548	809 (1990)	898	1,022	24 (1985)			176 (1988)	231 (2003)	238 (1997)	429 (1997)	669	1,168 (1987)	1,327	1,691	
6	66 (1979)	15 (1979)	207 (1985)	149 (2002)	433 (1975)	436	32 (1990)	328 (1992)	165 (1994)	442 (2002)	525	787 (1994)	875	961	22 (1988)			169 (1989)	216 (2001)	238 (2000)	417 (1999)	644	1,160 (1988)	1,292	1,606	
7	57 (1994)	14 (1984)	198 (2006)	135 (1984)	413 (1984)	404	32 (1989)	324 (1994)	163 (2002)	436 (2004)	520	786 (2002)	850	924	0.7 (1984)			119 (1991)	202 (1999)	225 (2001)	406 (2004)	547	1,110 (1991)	1,256	1,471	
8	57 (1990)	13 (1978)	197 (1991)	133 (2001)	406 (1974)	399	17 (1991)	306 (2001)	138 (1991)	435 (2003)	461	771 (2001)	841	860	0.6 (1987)			118 (1990)	195 (2000)	224 (1994)	392 (1995)	537	1,095 (1994)	1,233	1,397	
9	54 (1986)	10 (1989)	195 (2002)	130 (1988)	393 (2004)	389	3 (1992)	279 (2002)	125 (1993)	416 (1997)	407	750 (2003)	809	796				26 (1992)	190 (1997)	214 (1999)	388 (1996)	431	1,085 (2006)	1,197	1,227	
10	53 (1978)	10 (1986)	182 (1992)	122 (1986)	368 (1977)	367	3 (1994)	267 (2004)	110 (2006)	415 (1988)	381	703 (1985)	783	747				25 (1994)	184 (1998)	212 (2002)	368 (2006)	421	1,075 (1997)	1,152	1,168	
11	52 (1989)	3 (1990)	178 (1984)	112 (1980)	362 (2006)	344	0.5 (1993)	264 (1995)	93 (2005)	413 (1992)	357	685 (2006)	775	702				2 (1993)	111 (1995)	208 (2003)	349 (2005)	321	1,059 (1990)	1,124	1,023	
12	28 (1993)		176 (1990)	107 (1985)	344 (2002)	310	0.4 (1996)	247 (2003)	82 (1992)	402 (2000)	330	683 (1992)	747	640				0.5 (1995)	91 (1996)	149 (1998)	333 (1998)	241	1,003 (2005)	1,080	881	
13	19 (1992)		171 (2005)	100 (1978)	338 (1979)	290	0.3 (1995)	242 (1989)	69 (1997)	344 (1996)	311	674 (1984)	683	601				0.5 (1999)	90 (1991)	131 (2006)	308 (1992)	222	995 (2000)	991	823	
14	15 (1991)		169 (1979)	96 (1997)	320 (2005)	280	0.2 (1997)	241 (2005)	23 (1999)	338 (1999)	264	654 (2005)	658	544				0.08 (1998)	59 (1994)	110 (2004)	308 (1994)	170	991 (1992)	966	714	
15	2 (1995)		163 (2003)	89 (1979)	315 (2003)	254	0.2 (2000)	226 (1984)	16 (1995)	337 (1993)	242	646 (1997)	652	496				0.06 (1997)	38 (1993)	47 (1991)	304 (1993)	85	911 (1985)	956	581	
16			156 (1989)	87 (1994)	313 (1990)		0.2 (1999)	221 (2000)	15 (1990)	334 (2005)	236	599 (1986)	647	236				0.00 (1996)		38 (2005)	286 (1989)		881 (1996)	932		
17			150 (1994)	87 (2000)	311 (1978)		0.1 (1998)	217 (1985)	12 (1998)	323 (2006)	229	562 (2000)	634	229							280 (1991)		880 (1984)	915		
18			146 (1978)	77 (1990)	305 (1991)			213 (2006)		280 (1995)		561 (1989)	585								250 (1990)		878 (1999)	835		
19			134 (1997)	72 (1991)	295 (1994)			211 (1993)		274 (1989)		517 (1980)	569								238 (1988)		846 (1989)	807		
20			123 (1999)	70 (1992)	287 (1989)			195 (1999)		268 (1985)		501 (1993)	555								222 (1986)		829 (1995)	777		
21			111 (1995)	69 (1989)	270 (1992)			154 (1996)		261 (1984)		494 (1996)	531								217 (1987)		821 (1986)	749		
22			109 (1998)	52 (1996)	236 (1973)			153 (1996)		164 (1998)		461 (1999)	400								208 (1985)		806 (1993)	608		
23			108 (1993)	44 (1995)	231 (1997)			95 (1986)		149 (1986)		436 (1995)	380								206 (1984)		610 (1998)	586		
24			98 (1996)	29 (1993)	221 (2001)							433 (1975)														
25			88 (2001)	3 (1998)	211 (1972)							406 (1974)														
26			73 (2000)	0.8 (1999)	165 (1993)							368 (1977)														
27					160 (2000)							338 (1979)														
28					156 (1995)							311 (1978)														
29					149 (1996)							276 (1998)														
30					124 (1999)							236 (1973)														
31					112 (1998)							211 (1972)														
Rank	(MG/CY)																									
	QH-3	QH-7 & -	QH-4, -4A	QH-5, -5A	Total	Sum ^a	Oly-1	Oly-2	Oly-3	Total	Sum ^a	Total	Sum ^b	Sum ^a	Pas-1	Pas-3	Pas-4	Pas-5	Pas-6	Pas-7	Total	Sum ^a	Total	Sum ^b	Sum ^a	
	(MG/CY)																									
	(MG/CY)																									
1	32 (1980)	28 (1980)	86 (1986)	54 (2006)	168 (1980)	199	21 (1987)	146 (1990)	80 (2001)	179 (2001)	248	310 (1987)	348	447	42 (1990)	8 (1988)	5 (1988)	71 (1987)	101 (2005)	97 (1996)	145 (2002)	324	403 (2004)	502	781	
2	31 (1988)	14 (1988)	78 (1988)	52 (2004)	165 (1988)	175	20 (1988)	129 (1987)	62 (1996)	171 (1991)	211	300 (1988)	336	387	31 (1989)	7 (1989)		67 (1984)	96 (2004)	92 (1992)	144 (2001)	293	401 (2002)	480	680	
3	29 (1985)	11 (1985)	76 (2004)	49 (2003)	159 (1987)	165	18 (1986)	121 (1991)	61 (2003)	162 (1990)	199	270 (1991)	321	364	8 (1991)	1 (1990)		65 (1986)	77 (2006)	92 (1995)	143 (2003)	242	395 (2001)	464	606	
4	28 (1984)	10 (1987)	73 (1987)	49 (1987)	146 (1986)	160	16 (1985)	115 (1988)	59 (2000)	161 (1994)	190	270 (2004)	307	351	8 (1986)			60 (1985)	76 (2002)	86 (1993)	141 (2000)	230	387 (2003)	448	580	
5	27 (1987)	7 (1991)	72 (1980)	49 (2005)	142 (1985)	154	11 (1984)	113 (1997)	54 (2004)	151 (1987)	179	264 (1990)	293	333	8 (1985)			57 (1988)	75 (2003)	78 (1997)	140 (1997)	218	381 (1987)	432	551	
6	21 (1979)	5 (1979)	67 (1985)	49 (2002)	141 (1975)	142	10 (1990)	107 (1992)	54 (1994)	144 (2002)	171	257 (1994)	285	313	7 (1988)			55 (1989)	70 (2001)	77 (2000)	136 (1999)	210	378 (1988)	421	523	
7	19 (1994)	5 (1984)	64 (2006)	44 (1984)	135 (1984)	132	10 (1989)	106 (1994)	53 (2002)	142 (2004)	169	256 (2002)	277	301	0.2 (1984)			39 (1991)	66 (1999)	73 (2001)	132 (2004)	178	362 (1991)	409	479	
8	18 (1990)	4 (1978)	64 (1991)	43 (2001)	132 (1974)	130	5 (1991)	100 (2001)	45 (1991)	142 (2003)	150	251 (2001)	274	280	0.2 (1987)			38 (1990)	63 (2000)	73 (1994)	128 (1995)	175	357 (1994)	402	455	
9	17 (1986)	3 (1989)	64 (2002)	42 (1988)	128 (2004)	127	1 (1992)	91 (2002)	41 (1993)	135 (1997)	133	244 (2003)	264	259				9 (1992)	62 (1997)	70 (1999)	126 (1996)	140	353 (2006)	390	400	
10	17 (1978)	3 (1986)	59 (1992)	40 (1986)	120 (1977)	119	1 (1994)	87 (2004)	36 (2006)	135 (1988)	124	229 (1985)	255	243				8 (1994)	60 (1998)	69 (2002)	120 (2006)	137	350 (1997)	375	381	
11	17 (1989)	1 (1990)	58 (1984)	36 (1980)	118 (2006)	112	0.2 (1993)	86 (1995)	30 (2005)	135 (1992)	116	223 (2006)	253	229				1 (1993)	36 (1995)	68 (2003)	114 (2005)	105	345 (1990)	366	333	
12	9 (1993)		57 (1990)	35 (1985)	112 (2002)	101	0.1 (1996)	81 (2003)	27 (1992)	131 (2000)	107	223 (1992)	243	209				0.2 (1995)	30 (1996)	49 (1998)	109 (1998)	78	327 (2005)	352	287	
13	6 (1992)		56 (2005)	33 (1978)	110 (1979)	94	0.1 (1995)	79 (1989)	23 (1997)	112 (1996)	101	220 (1984)	222	196				0.2 (1999)	29 (1991)	43 (2006)	100 (1992)	72	324 (2000)	323	268	
14	5 (1991)		55 (1979)	31 (1997)	104 (2005)	91	0.1 (1997)	79 (2005)	7 (1999)	110 (1999)	86	213 (2005)	214	177				0.03 (1998)	19 (1994)	36 (2004)	100 (1994)	55	323 (1992)	315	233	
15	1 (1995)		53 (2003)	29 (1979)	103 (2003)	83	0.1 (2000)	74 (1984)	5 (1995)	110 (1993)	79	211 (1997)	212	162				0.02 (1997)	12 (1993)	15 (1991)	99 (1993)	28	297 (1985)	312	189	
16			51 (1989)	28 (1994)	102 (1990)		0.0 (1999)	72 (2000)	5 (1990)	109 (2005)	77	195 (1986)	211	77				0.00 (1996)		12 (2005)	93 (1989)		287 (1996)	304		
17			49 (1994)	28 (2000)	101 (1978)		0.0 (1998)	71 (1985)	4 (1998)	105 (2006)	75	183 (2000)	207	75							91 (1991)		287 (1984)	298		
18			48 (1978)	25 (1990)	99 (1991)			69 (2006)		91 (1995)		183 (1989)	191								81 (1990)		286 (1999)	272		
19			44 (1997)	24 (1991)	96 (1994)			69 (1993)		89 (198																

Rank	Groundwater Production																																												
	Quail Hollow Wells						Olympia Wells					QH & Oly Wells			Pasatiempo Wells										All Wells																				
	QH-3	QH-7 & -8	QH-4, -4A	QH-5, -5A	Total	Sum ^a	Oly-1	Oly-2	Oly-3	Total	Sum ^a	Total	Sum ^a	Sum ^a	Pas-1	Pas-3	Pas-4	Pas-5	Pas-6	Pas-7	Total	Sum ^a	MWd-2	Total	Sum ^a	Sum ^a																			
	(AF/month)																																												
1	14	Jun-84	16	Aug-80	50	Jul-05	25	Jul-05	75	Jul-05	105	10	Apr-88	68	Aug-87	59	Jul-93	107	Aug-94	136	149	Sep-03	181	241	19	Sep-89	8	Oct-88	6	May-88	29	Jul-88	39	Aug-05	38	Aug-92	60	May-01	140	8	Jul-06	199	Aug-03	249	389
2	14	Aug-84	15	Nov-91	41	Jul-86	25	Oct-84	72	Aug-84	95	9	Oct-84	66	Jul-88	58	Aug-96	98	Aug-02	133	146	Aug-02	169	228	17	Aug-89	8	Sep-88	4	Jun-88	28	Aug-87	38	Jul-04	35	Jul-95	58	Jul-00	130	7	Sep-06	199	Aug-02	234	364
3	14	Aug-84	13	Jul-80	40	Jul-86	25	Jul-06	70	Jul-86	92	9	Aug-84	65	Aug-88	53	Sep-96	96	Aug-03	127	145	Aug-94	166	219	17	Dec-89	7	Aug-89	3	Aug-88	27	Aug-84	38	Jul-05	34	Sep-92	58	Jul-03	127	7	Aug-06	195	Sep-03	231	352
4	14	Dec-80	13	Sep-80	38	May-91	25	Jan-87	70	Aug-87	90	9	Jul-85	64	Jul-89	53	Oct-96	94	Jul-01	126	144	Aug-03	164	215	16	Jun-89	7	Jul-89	1	Sep-88	27	Jul-87	35	Jun-04	34	Apr-95	56	May-02	119	5	Oct-06	188	Jul-06	225	340
5	13	Oct-80	12	Oct-80	35	Aug-86	25	Jul-03	69	Jul-87	85	8	May-87	61	Aug-89	53	Aug-94	94	Sep-01	123	144	Aug-87	163	207	16	Oct-90	7	Jun-88	1	Jul-88	27	Aug-86	34	Jun-04	34	May-01	55	Jul-99	118	3	Nov-06	188	Jul-04	221	328
6	13	Jan-81	11	Sep-83	33	Sep-03	24	Jul-04	69	Aug-83	82	8	Aug-88	61	Jul-84	48	Aug-03	93	Aug-01	117	141	Aug-04	162	192	14	Nov-90	6	Oct-89	27	Aug-86	33	Oct-05	34	Jun-96	55	Aug-03	114	2	Dec-06	186	Jul-03	219	315		
7	13	Jul-84	10	Aug-83	33	Jul-06	24	Aug-03	68	Oct-84	80	8	Jun-85	61	Sep-88	48	Jun-91	93	Sep-03	117	139	Jul-04	161	196	14	Jan-90	3	Sep-89	26	Aug-88	33	Sep-04	33	May-02	53	Jul-06	108			184	Aug-04	214	305		
8	13	Feb-82	10	Nov-80	32	Aug-78	23	Oct-02	68	Aug-80	78	8	Aug-85	60	Oct-90	47	Aug-02	93	Jun-01	115	135	Aug-01	161	193	13	Mar-90	2	Oct-90	26	Jun-84	33	May-04	33	Jul-96	53	Aug-02	107			184	Aug-01	214	300		
9	13	Apr-82	10	Aug-85	31	Sep-85	23	Jun-01	67	Sep-83	76	8	Sep-84	59	Aug-90	47	Jul-01	90	Aug-04	114	134	Jul-05	156	190	13	Aug-90	2	Nov-88	25	Jun-87	33	Sep-05	33	Aug-95	53	Jul-97	106			183	Aug-94	209	296		
10	12	Aug-83	8	Aug-87	31	Jul-04	23	Oct-03	65	Jun-87	74	8	Jul-88	59	Jun-90	47	Sep-01	88	Jul-02	113	133	Sep-04	154	187	13	Dec-90	1	Aug-88	25	Sep-87	33	Jul-03	33	Jul-93	52	Jun-01	104			182	Jul-02	206	291		
11	12	Sep-83	8	Aug-84	30	Jul-87	23	Sep-03	65	Oct-80	73	8	Sep-85	59	Sep-90	46	Jun-01	88	Jul-94	113	133	Sep-08	153	185	12	Jul-89			24	Jul-84	32	Jun-05	32	Sep-95	52	Jul-02	100			178	Sep-04	205	286		
12	12	Sep-84	8	Oct-83	30	Oct-80	23	May-01	65	Aug-85	72	8	Jun-87	58	Sep-84	46	Aug-01	87	Sep-94	112	132	Aug-88	152	184	12	Feb-90			24	May-89	32	Apr-04	31	Mar-95	51	Jul-95	99			178	Jul-05	203	283		
13	12	Jan-85	7	Sep-85	30	Dec-80	22	Aug-04	63	Jul-84	71	8	Mar-86	58	Sep-87	46	Sep-03	86	Sep-04	111	131	Aug-84	149	182	11	Apr-90			23	Jun-85	32	Aug-04	31	May-97	50	Aug-98	97			174	Sep-01	199	280		
14	12	Jan-87	7	Jul-88	30	Aug-84	22	Aug-02	63	Sep-80	70	7	Oct-87	56	Sep-93	43	Aug-04	84	Jul-04	107	130	Jul-02	147	177	10	Jun-90			22	Jul-85	32	Jul-00	31	May-93	50	May-97	94			173	Sep-02	197	272		
15	12	Jul-87	7	Jul-87	30	Jun-06	21	Jun-06	62	Sep-85	70	7	Aug-86	56	Jul-90	43	Jul-02	83	Aug-92	106	130	Sep-01	146	176	8	Oct-89			22	May-85	31	Aug-98	30	Jul-92	50	Jun-02	92			173	Jul-01	196	268		
16	12	Jul-88	6	Jun-88	30	Jun-87	21	Sep-04	62	Jun-86	69	7	Nov-87	56	Jul-97	43	Sep-94	82	Sep-02	105	130	Jul-94	144	174	8	May-91			22	May-84	31	Aug-03	30	Jun-95	50	Aug-00	91			172	Aug-87	194	265		
17	12	Aug-87	6	Oct-85	29	Aug-04	21	Aug-05	62	Aug-86	68	7	Jul-87	54	Aug-85	41	Sep-04	81	Jul-03	102	129	Sep-02	142	170	7	Apr-86			22	Sep-84	30	Aug-06	30	Apr-97	50	Aug-97	89			170	Sep-06	192	259		
18	11	May-88	6	Aug-88	29	Oct-84	21	Aug-87	61	Oct-83	67	7	Sep-86	54	Aug-97	41	Jul-04	79	Oct-01	101	129	Jul-03	140	169	7	Apr-91			21	Jun-86	30	Jul-97	29	Aug-96	50	Jul-01	87			169	Aug-92	190	256		
19	11	Aug-88	5	Jun-85	29	Oct-86	21	Oct-83	61	Jun-85	66	7	Oct-88	54	Oct-92	40	Jul-03	77	Aug-00	101	127	Aug-05	138	167	7	Jul-90			20	Aug-85	30	Aug-97	29	Aug-93	49	Jul-04	86			168	Jun-01	188	253		
20	11	Jun-85	5	Jul-85	29	Nov-86	21	Sep-02	60	Jul-80	66	6	Jan-87	53	Oct-94	39	Sep-02	77	Sep-00	99	127	Jul-06	137	165	6	Nov-89			20	Apr-87	29	Jun-01	29	May-96	49	Jul-96	85			168	Aug-06	186	250		
(MG/month)																																													
1	5	Jun-84	5	Aug-80	16	Jul-05	8	Jul-05	24	Jul-05	34	3	Apr-88	22	Aug-87	19	Jul-93	35	Aug-94	44	49	Sep-03	59	79	6	Sep-89	3	Oct-88	2	May-88	10	Jul-88	13	Aug-05	12	Aug-92	19	May-01	46	3	Jul-06	65	Aug-03	81	127
2	5	Aug-84	5	Nov-91	13	Jul-86	8	Oct-84	23	Aug-84	31	3	Oct-84	22	Jul-88	19	Aug-96	32	Aug-02	43	47	Aug-02	55	74	5	Aug-89	2	Sep-88	1	Jun-88	9	Aug-87	13	Jul-04	11	Jul-95	19	Jul-00	42	2	Sep-06	65	Aug-02	76	119
3	5	Oct-84	4	Jul-80	13	Jun-86	8	Jul-06	23	Jul-86	30	3	Aug-84	21	Aug-88	17	Sep-96	31	Aug-03	41	47	Aug-94	54	71	5	Dec-89	2	Aug-89	1	Aug-88	9	Aug-84	12	Jul-05	11	Sep-92	19	Jul-03	41	2	Aug-06	64	Sep-03	75	115
4	4	Dec-80	4	Sep-80	13	Jan-91	8	Jan-87	23	Aug-87	29	3	Jul-85	21	Jul-89	17	Oct-96	31	Jul-01	41	47	Aug-03	54	70	5	Jun-89	2	Jul-89	0	Sep-88	9	Aug-87	11	Jun-04	11	Apr-95	18	May-02	39	2	Oct-06	61	Jul-06	73	111
5	4	Oct-80	4	Oct-80	11	Aug-86	8	Jul-03	23	Jul-87	28	3	May-87	20	Aug-89	17	Aug-94	31	Sep-01	40	47	Aug-87	53	68	5	Oct-90	2	Jun-88	0	Jul-88	9	Aug-86	11	Jul-06	11	May-01	18	Jul-99	38	1	Nov-06	61	Jul-04	72	107
6	4	Jan-81	4	Sep-83	11	Sep-03	8	Jul-04	22	Aug-83	27	3	Aug-88	20	Jul-84	16	Aug-03	30	Aug-01	38	46	Aug-04	53	65	5	Nov-90	2	Oct-89	9	Jul-86	11	Oct-05	11	Jun-96	18	Aug-03	37	1	Dec-06	61	Jul-03	71	103		
7	4	Jul-84	3	Aug-83	11	Jul-06	8	Aug-03	22	Oct-84	26	3	Jun-85	20	Sep-88	16	Jun-91	30	Sep-03	38	45	Jul-04	53	64	4	Jan-90	1	Sep-89	9	Aug-88	11	Sep-04	11	May-02	17	Jul-06	35			60	Aug-04	70	99		
8	4	Feb-82	3	Nov-80	10	Aug-78	7	Oct-02	22	Aug-80	25	3	Aug-85	20	Oct-90	15	Aug-02	30	Jun-01	38	44	Aug-01	52	63	4	Mar-90	1	Oct-90	8	Jun-84	11	May-04	11	Jul-96	17	Aug-02	35			60	Aug-01	70	98		
9	4	Apr-82	3	Aug-85	10	Sep-85	7	Jun-01	22	Sep-83	25	3	Sep-84	19	Aug-90	15	Jul-01	29	Aug-04	37	44	Jul-05	51	62	4	Aug-90	1	Nov-88	8	Jun-87	11	Sep-05	11	Aug-95	17	Jul-97	34			60	Aug-94	68	96		
10	4	Aug-83	3	Aug-87	10	Jul-84	7	Oct-03	21	Jun-87	24	3	Jul-88	19	Jun-90	15	Sep-01	29	Jul-02	37	43	Sep-04	50	61	4	Dec-90	0	Aug-88	8	Sep-87	11	Jul-03	11	Jul-93	17	Jul-01	34			59	Jul-02	67	95		
11	4	Sep-83	2	Aug-84	10	Jul-87	7	Sep-03	21	Oct-80	24	2	Sep-85	19	Sep-90	15	Jun-01	29	Jul-94	37	43	Jul-88	50	60	4	Jul-89			8	Jul-84	11	Jun-05	10	Sep-95	17	Jul-02	33			58	Sep-04	67	93		
12	4	Sep-84	2	Oct-83	10	Oct-80	7	May-01	21	Aug-85	24	2	Jun-87	19	Sep-84	15	Aug-01	28	Sep-94	36	43	Aug-88	50	60	4	Feb-90			8	May-89	11	Apr-04	10	Mar-95	17	Jul-95	32			58	Jul-05	66	92		
13	4	Jan-85	2	Sep-85	10	Dec-80	7	Aug-04	21	Jul-84	23	2	Mar-86	19	Sep-87	15	Sep-03	28	Sep-04	36	43	Aug-84	48	59	4	Apr-90			8	Jun-85	10	Aug-04	10	May-97	16	Aug-98	32			57	Sep-01	65	91		
14	4	Jun-87	2	Jul-88	10	Aug-84	7	Aug-02	20	Sep-80	23	2	Oct-87	18	Sep-93	14	Aug-04	27	Jul-04	35	42	Jul-02	48	58	3	Jun-90			7	Jul-85	10	Jul-00	10	May-93	16	May-97	31			56	Sep-02	64	89		
15	4	Jul-87	2	Jul-87	10	Jun-06	7	Jun-06	20	Sep-85	23	2	Oct-86	18	Jul-90	14	Jul-02	27	Aug-92	35	42	Sep-01	47	57	3	Oct-89			7	May-85	10	Aug-9													

Calendar Year	Pasatiempo			Camp Evers ^a			Scotts Valley	North Scotts Valley	SVWD Total	Pasatiempo			Camp Evers ^a			Scotts Valley	North Scotts Valley	SVWD Total	Pasatiempo			Camp Evers ^a			Scotts Valley	North Scotts Valley	SVWD Total
	SLVWD Pas-wells	Mt Hermon Assoc. ^b	Hanson Quarry	Mañana Woods	SV-9, -10, -10A, & Hidden Oaks	SV-3, -3A, -6, -7, -11, -11A, & 11B	SV-3B & -7A	SVWD		SLVWD Pas-wells	Mt Hermon Assoc. ^b	Hanson Quarry	Mañana Woods	SV-9, -10, -10A, & Hidden Oaks	SV-3, -3A, -6, -7, -11, -11A, & 11B	SV-3B & -7A	SVWD		SLVWD Pas-wells	Mt Hermon Assoc. ^b	Hanson Quarry	Mañana Woods	SV-9, -10, -10A, & Hidden Oaks	SV-3, -3A, -6, -7, -11, -11A, & 11B	SV-3B & -7A	SVWD	
	(AF/yr)									(MG/yr)									(gpm)								
	1976	155	0		65			470		51	0		21				153		96	0		40					
1977	159	0		65			504	52	0		21				164	99	0		40					312			
1978	164	0		65			460	53	0		21				150	102	0		40					285			
1979	170	0		65			537	55	0		21				175	105	0		40					333			
1980	175	0		65			694	57	0		21				226	108	0		40					430			
1981	180	0		65			652	59	0		21				212	112	0		40					404			
1982	185	0		65			780	60	0		21				254	115	0		40					483			
1983	195	0		65	416	387	1,585	64	0		21	136	126		516	121	0		40	258	240			982			
1984	206	0		65	414	514	1,707	67	0		21	135	168		556	128	0		40	256	319			1,058			
1985	208	0		65	596	409	1,966	68	0		21	194	133		641	129	0		40	369	253			1,218			
1986	222	0		65	709	453	2,236	72	0		21	231	148		728	138	0		40	439	281			1,385			
1987	217	0		65	602	610	2,180	71	0		21	196	199		710	135	0		40	373	378			1,351			
1988	238	0		65	778	576	2,496	78	0		21	253	188		813	148	0		40	482	357			1,546			
1989	286	0		63	594	754	2,305	93	0		20	194	246		751	177	0		39	368	467			1,428			
1990	250	0		74	848	564	2,633	81	0		24	276	184		858	155	0		46	525	349			1,631			
1991	280	112		70	695	723	2,484	91	36		23	227	236		809	174	69		43	431	448			1,539			
1992	308	135		70	667	817	2,523	100	44		23	217	266	1	822	191	84		43	413	506	1		1,563			
1993	304	146		70	765	854	2,755	99	48		23	249	278	0	898	189	90		43	474	529	0		1,707			
1994	308	207		70	473	752	2,486	100	67		23	154	245	136	810	191	128		43	293	466	259		1,540			
1995	392	166		70	383	410	2,382	128	54		23	125	134	273	776	243	103		43	237	254	519		1,476			
1996	388	137	231	70	568	290	2,783	126	45	75	23	185	95	322	907	240	85	143	43	352	180	611		1,724			
1997	429	160	425	70	593	215	1,285	3,056	140	52	139	23	193	70	419	996	266	99	263	43	367	133	796	1,893			
1998	333	202	276	63	499	310	1,038	2,710	109	66	90	21	163	101	338	883	207	125	171	39	309	192	643	1,679			
1999	417	210		76	413	312	1,154	2,667	136	68		25	134	102	376	869	258	130		47	256	193	715	1,652			
2000	433	191	412	74	300	464	1,174	2,611	141	62	134	24	98	151	383	851	268	119	255	46	186	287	727	1,618			
2001	441	185	457	68	325	595	1,103	2,716	144	60	149	22	106	194	359	885	273	115	283	42	202	369	683	1,683			
2002	444	194	289	68	570	573	920	3,002	145	63	94	22	186	187	300	978	275	120	179	42	353	355	570	1,860			
2003	439	194	243	66	449	743	839	2,846	143	63	79	22	146	242	273	927	272	120	151	41	278	460	520	1,763			
2004	406	206	44	60	345	692	878	2,621	132	67	14	20	112	226	286	854	252	127	27	37	214	429	544	1,624			
2005	349	184		59	314	519	829	2,335	114	60		19	102	169	270	761	216	114		36	195	321	514	1,447			
2006	368	216		60	367	542	904	2,539	120	70		20	119	177	294	827	228	134		37	227	336	560	1,573			
Average 2000-06	411	196	289	65	382	590	949	2,667	134	64	94	21	124	192	309	869	255	121	179	40	236	365	588	1,652			

^aOther groundwater producers include Spring Lakes, Vista Del Lago, Montevalle, Valley Gardens, and pump-and-treat groundwater remediation sites.

^bMt. Hermon relied on spring diversions prior to 1991.

Highlighted cells indicate missing or incomplete monthly records.

Estimates indicated by *italics*.

Table 5-10

Annual Groundwater Production by SLVWD, SVWD, MHA, Hanson Quarry, and Mañana Woods in the Pasatiempo, Camp Evers, and Scotts Valley Areas, CYs 1976-2006

Well	Date	pH	Elec- trical Con- duc-tivity (μhos/cm)	Total Dis- solved Solids (TDS)	Hard- ness	Major Cations				Major Anions			Ni- trate (NO ₃)	Iron (Fe)	Man- gan-ese (Mn)	Fluor- ide		
						Cal- cium (Ca)	Mag- ne- sium (Mg)	So- dium (Na)	Potas- sium (K)	Bicar- bonate (HCO ₃)	Sul- fate (SO ₄)	Chlor- ide (Cl)					(mg/L)	
QH-3	Nov-69	6.60	127	122	39	14	1.2	7.8		54	6.1	8.6	0.6	1.4				
	Jun-76	6.40	120	84	37	13	0.88	9.4	0.8	46	0.9	8	4.4	0.1	<0.002	<0.1		
	Jun-79	6.82	118	93	39	14	1	7	0.8	42	3.9	10	3.0	1.02	<0.01	0.22		
	Jul-81	7.87	146	96	41	14.2	1.3	10.2	1.3	54	2.1	20	7.8	0.03	0.008	0.4		
	Jun-82	6.95	150	97	50	18	1	10	1	58	<1	10	8.0	0.06	<0.005	0.3		
	Jul-83	7.11	165	105	51	18	1.5	9	<1	60	<5	12	8.3	<0.005	<0.005	0.3		
	May-86	6.75	200	130	55	19	1.5	11	2	58	<10	12	9.2	<0.05	<0.01	0.16		
	Apr-89	6.70	210	130	67	25	1.2	14	1.1	65	1.9	10	9.7	<0.05	<0.03	0.22		
	Sep-92	6.60	200	130	73	24	3.2	12	0.9	61	9.5	7	15.0	<0.05	<0.03	0.34		
Jul-95	6.40	200	130	81	30	1.5	12	1.1	73	7.2	7.1	11.0	0.55	0.02	0.15			
QH-4	Jun-76	6.50	130	91	35	13	0.56	9.2	0.7	56	1.9	12	2.7	0.2	0.03	<0.1		
	Jun-79	7.03	125	106	44	16	0.95	8	1	42	11	8	1.1	0.99	<0.01	0.56		
	Jul-81	7.78	134	86	36	12.8	1	10.2	1.1	48	5.5	20	1.3	0.015	0.006	0.3		
	Jun-82	6.72	135	87	44	16	1	10	1	48	2	9	1.7	<0.005	<0.005	0.2		
	Jul-83	7.01	135	87	39	14	<1	9	<1	48	<5	10	1.8	0.01	<0.005	0.3		
	May-86	6.25	170	110	42	15	1	10	2	45	<10	<10	1.6	<0.05	<0.01	0.13		
	Apr-89	6.80	140	90	36	13	0.9	16	0.9	34	8.3	12	0.7	0.26	<0.03	0.2		
	Jul-89	6.40	160	99	61	23	0.87	15	1	45	5.4	10	2.0	<0.05	<0.03	0.14		
	Jul-92	6.70	150	85	43	15	1.4	10	0.7	49	<10	<10	3.5	<0.05	<0.01	0.32		
	Jun-95	6.50	135	89	52	19	1.2	10	1	46	6.9	6.4	2.2	<0.05	<0.03	0.15		
	Aug-98	6.70	140	89	49	18	1	9.5	0.9	49	7.5	5.5	2.4	<0.05	<0.015	<0.2		
	Jun-01	6.70	140	92	51	19	0.9	8.7	0.8	45	13	6.2	2.0	0.06	<0.015	<0.1		
-4A	Jul-03	6.20	140	90	48	17	1.3	10	0.92	47	10	6.5	2.5	<0.05	<0.015	0.2		
	Sep-06	6.80	170	132	59	21	1.5	9.9	1	72	8.8	6.2	3.2	<0.05	<0.015	0.17		
	May-73	6.30	120	84	30	11	0.5	8.5	1.3	38	0.1	2	0.3	0.18	0.008	<0.1		
	Feb-76	6.92	102		30	10	1.2	9		31	<1	7	4.0	0.05	0.02	0.17		
	Jun-76	6.50	100	70	26	9.5	0.41	8.4	0.5	34	1.2	8	3.1	0.04	<0.002	<0.1		
	Jun-79	7.23	118	83	35	13	0.75	7	0.5	35	0.88	10	1.6	0.21	<0.01	0.23		
	Jul-81	7.69	111	70	26	9.1	0.72	9.4	1.1	36	2.1	20.8	4.1	<0.005		0	0.3	
	Jun-82	6.56	105	66	29	11	1	8	1	21	1	8	2.3	0.08	<0.005	0.2		
	Jul-83	6.84	110	71	29	10	<1	9	<1	35	<5	11	6.2	0.02	0.01	0.25		
	May-86	6.80	140	92	55	11	6.5	10	2	33	<10	<10	7.2	<0.05	<0.01	0.14		
	Apr-89	6.60	140	90	43	16	0.8	12	0.9	40	3.2	12	3.0	0.34	<0.03	0.21		
	Jul-89	6.20	130	86	59	22	0.94	16	0.96	35	6.3	10	13	<0.05	<0.03	0.15		
-5A	Jul-92	6.70	150	85	39	14	1	9	0.7	38	7.9	8.6	11	<0.05	<0.01	0.34		
	Jul-95	6.40	135	89	45	17	0.8	10	0.9	34	5.4	9.9	11	<0.05	<0.03	0.18		
	Aug-98	6.60	140	90	40	15	<1	9.6	0.8	36	5.5	7.5	11	<0.05	<0.015	<0.2		
	Jun-01	6.40	130	83	44	16	<1	9.6	1.1	38	8.4	8.0	9	<0.05	<0.015	0.17		
	Jul-03	6.10	150	96	46	17	<1	11	0.94	41	9.2	8.9	12	<0.05	<0.015	0.18		
	Sep-06	6.60	160	128	47	17	1	11		46	8.4	8.6	12	<0.05	<0.015	0.17		
	QH-7	Jul-76	6.70	239	167	23	8.2	0.53	52	0.7	88	0.2	26	<0.9	0.58	0.013	<0.2	
		Jun-79	6.65	108	67	28	10	0.76	9	0.5	38	2.4	8	<0.1	8.6	0.04	0.31	
		Jul-81	7.51	115	73	29	10.3	0.75	10.9	1.1	27	3.6	20	10.9	0.017	<0.005	0.3	
	QH-8	Apr-80	7.22	117	102	54	15.1	4.05	8.6	0.9	36	5.4	40	<0.1	0.19	0.027	0.2	
		Jun-82	6.16	115	73	32	11	1	10	1	34	6	9	0.4	0.77	0.04	0.4	
		Jul-83	6.40	105	66	27	9	<1	8	<1	29	6	10	1.9	0.3	0.02	0.35	
May-86		6.20	160	110	31	10	<1	9	1.5	28	15	10	2.9	0.43	0.01	0.23		
Apr-89		6.40	150	96	37	13	1.2	12	1	37	6.4	14	3.8	0.75	0.03	0.25		
Jul-89		5.80	140	90	57	21	1.2	14	1	28	12	10	3.4	0.65	<0.03	0.25		
Jul-92		6.30	150	90	41	14	1.5	9.5	0.7	39	11	7.5	6.2	1.2	0.03	0.45		
Jul-95		6.10	105	69	39	14	1.1	7.4	0.7	29	6.4	6.7	1.3	1.5	0.02	0.35		
QHR	Nov-74	6.70	100		26	9.3	0.8	9.2	0.3		6	1	0.1	3		<0.1		
	Oct-76	6.60	(87)	76	12	3	1.2	12	1	25	8	5	1.1			0.2		
	Apr-77	6.70	(100)	103	27	8	1.5	12	0.08	26	10	6	1.6			0.3		
	Oct-77	6.80	(70)	106	21	7	1	7	1	282	10	6	1.4					
	May-78	6.80	(110)	74		4	0.9	6	1	27	13	6	4.3			0.2		
	Oct-78	6.70	(56)	411						27	31	12	0.4			0.8		
	Oct-79	6.90	(64)	36	24	8	1.2	9	0.6	26		6	<0.04	0.1	<0.02			
	May-80	6.70	(63)	33	20	7	0.6	7	0.8	32	4	6	1.3	0.34	<0.01			
	Oct-80	6.60	(63)	97		9	0.9	8	0.9	29	10	6	1.2	0.064	0.01			
	May-81	6.50	(65)			8	0.6	9	0.9	29	6	6	1.1	0.1	<0.01			
	Oct-81	6.70	(53)			7	0.8	9	0.8	29	6	6	1.2	<0.04	<0.01			
	May-82	6.70	(55)			9	0.9	9	0.9	31	7	6	0.6	0.21	0.03			
Oct-82	6.70	(66)			8	0.9	9	0.9	34	3	6		1.6	0.08				
Mar-87	6.40	110	72	20	7	<1	10	2	26	5	10	2.1	<0.05	<0.01	0.19			
LCWD 1	Mar-81	6.90	192	126	203					40	9	20	<0.01	1.02	0.1	0.3		
LCWD 5	Mar-81	7.50	575	387	254					266	25	20	1.8	0.12	0.09	0.3		
Drinking Water Standards																		
Primary																		
Secondary																		
Recommended 6.5-8.5 900 500																		
Upper 1,600 1,000																		
Short Term 2,200 1,500																		

Bold indicates exceedence of standard.

(Parentheses) indicate field values of electrical conductivity.

Table 5-11
Quail Hollow Groundwater General Water Quality

Well	Date	pH	Elec-trical Con-duc-tivity (µmhos/cm)	Total Dis-solved Solids (TDS)	Hard-ness	Major Cations				Major Anions			Ni-trate (NO ₃)	Iron (Fe)	Man-gan-ese (Mn)	Fluor-ide	
						Cal-cium (Ca)	Mag-ne-sium (Mg)	So-dium (Na)	Potas-sium (K)	Bicar-bonate (HCO ₃)	Sul-fate (SO ₄)	Chlor-ide (Cl)					(mg/L)
Oly-1	Nov-75			610												0.13	
	6/19/78	6.77	460	299	172	55	8.5	31	1.6	107	110	18	0.6	1.74	0.35	0.36	
	9/7/78													0.39	0.09	-	
	6/1/79	6.78	360	304	99	30	6.0	12	1.4	71	56	12	1.4	0.11	0.04	0.38	
	5/14/86	7.31	340	225	92	32	3.0	10	2.0	50	60	12	4.2	<0.05	<0.01	0.13	
Oly-2T	5/7/80	7.58	515	270	221	79	5.87	15	1.6	148	109	12	<0.1	0.02	0.09	0.30	
	8/18/87	7.80	550	360	240	30	39	25	2.4	170	50	38	<1	0.15	0.06	0.34	
	9/29/87	7.40	580	380	130	43	4.9	33	2.5	180	46	44	<1	<0.05	0.05	0.15	
	10/6/87	7.50	580	380	180	65	4.6	31	3.0	170	50	46	<1	0.09	0.05	0.17	
	10/27/87	7.40	450	290	180	60	8.0	11	2.0	150	72	20	<0.1	<0.05	0.08	0.16	
	11/3/87	7.40	410	260	170	53	7.7	10	2.1	150	58	16	0.3	<0.1	0.08	0.18	
	11/10/87	7.40	480	310	200	69	6.5	17	2.4	160	130	22	<0.1	<0.05	0.06	0.26	
	11/17/87	7.40	600	380	190	65	6.2	15	2.1	160	92	18	<0.1	<0.05	0.05	0.20	
Oly-2	May-80			270	220						110					0.90	
	5/18/81	7.73	555	373	271	98	6.0	20	4.0	152	135	19	<0.1	0.01	0.06	0.70	
	7/23/81	8.40	790	534	335	120	8.6	17	2.4	140	245	24	0.2	0.07	0.12	0.30	
	9/16/81	7.95	670	452	259	94	5.9	41	2.3	152	187	16	0.5	0.06	0.11	0.22	
	6/29/82	7.86	680	458	330	120	7.0	18	2.0	160	128	13	0.2	0.12	0.10	0.20	
	3/10/83	7.40	725		368						170						
	7/20/83	7.64	775	525	310	110	8.0	17	<1	170	195	17	<0.1	0.09	0.11	0.25	
	9/13/84	7.96	835	565	440	160	10.0	17	3.0	155	225	17	<1	0.12	0.12	0.19	
	9/3/85	7.25	840	555	290	100	10.0	19	3.0	155	230	16	<1	0.08	0.10	0.21	
	5/14/86	7.50	930	615	385	140	8.5	19	3.5	150	250	12	<1	0.14	0.11	0.14	
	6/25/87	7.30	760	500	370	130	9.1	13	2.4	160	240	18	<1	<0.05	0.11	0.10	
	7/8/87													0.05	0.10		
	8/18/87	7.60	840	550	360	130	9.4	14	2.4	170	240	18	<1	0.10	0.11	0.29	
	8/25/87	7.40	770	510	360	130	9.4	15	2.8	170	240	12	<1	<0.05	0.09	0.15	
	9/29/87	7.40	840	550	340	120	9.8	15	2.2	170	230	14	<1	<0.05	0.08	0.15	
	10/6/87	7.50	830	550	340	120	9.5	13	2.6	170	250	18	<1	0.09	0.08	0.15	
	10/27/87	7.40	720	460	340	120	9.6	16	2.4	170	240	16	<0.1	<0.05	0.09	<0.15	
	11/3/87	7.40	680	440	340	120	10.0	15	2.6	200	240	21	<0.1	<0.1	0.09	0.15	
	11/10/87	7.30	650	420	310	110	9.3	16	2.7	170	140	22	0.16	0.66	0.10	0.30	
	11/17/87	7.30	950	610	310	110	9.7	16	2.5	170	240	18	0.68	0.71	0.12	0.16	
	11/24/87	7.30	900	580	320	110	9.9	15	2.6	170	240	18	<0.1	0.17	0.10	0.23	
	7/28/88	7.30	820	520	340	120	9.7	18	2.7	170	260	14	<0.1	0.08	0.17	0.15	
	7/19/89	7.20	800	510	360	130	9.4	20	2.1	170	190	14	<1	0.08	0.09	0.15	
	10/3/89	7.40	820	520	260	90	8.3	19	2.6	160	200	14	<1	<0.05	0.08	0.22	
	3/27/90	7.20	650	420	350	110	17	18	1.9	170	225	14	<1	0.19	0.08	0.21	
	9/12/91	7.50	650	415	375	110	24	13	1.3	170	185	8.8	<1	0.08	0.07	0.13	
	7/21/92	7.50	670	480	325	115	9.5	11	1.3	160	170	7.4	<1	0.27	0.07	0.14	
	7/20/93	7.50	385	245	180	65	4.0	11	1.1	140	46	10	<1	0.09	0.06	0.17	
	7/21/94	7.10	590	410	310	110	8.0	11	1.1	155	125	7.0	<1	0.19	0.06	0.20	
	7/3/95	7.10	580	400	290	105	7.0	12	1.5	160	125	8.5	<1	0.10	0.06	0.19	
	8/19/98	7.40	625	450	295	105	8.0	12	1.5	170	175	5.8	<1	0.16	0.07	<0.2	
	8/17/00	7.70	590	410	280	100	8.3	11	1.5	160	150	8.5	<1	0.10	0.08	0.66	
6/21/01	7.20	550	360	290	104	7.4	11	1.6	160	130	7.6	<1	0.08	0.07	0.28		
7/16/03	7.40	580	380	280	98	9.5	11	1.6	170	145	7	<1	0.06	0.09	0.29		
7/21/04	7.70	530	340	260	91	8.8	11	1.6	160	110	7	<1	0.06	0.08	0.28		
9/27/06	7.50	550	370	250	88	8.2	10	1.5	180	120	6	<1	0.05	0.08	0.32		
Oly-3	9/12/91	7.40	645	410	325	100	18	14	1.4	170	180	8.4	<1	0.10	0.04	0.12	
	7/21/92	8.00	725	470	290	100	9.5	12	1.5	175	175	7.3	<1	0.21	0.05	0.13	
	7/20/93	7.30	780	500	415	150	10.0	16	1.7	185	235	6.7	<1	0.29	0.06	0.14	
	7/21/94	7.05	665	460	335	120	8.5	13	1.4	170	150	7.0	<1	0.11	0.05	0.18	
	10/24/96	7.20	760	550	390	145	7.0	14	1.8	190	215	7.0	<1	0.21	0.06	<0.2	
	8/19/98	7.50	630	460	315	115	6.3	12	1.7	180	180	6.7	<1	1.6	0.08	<0.2	
	8/17/00	7.30	850	600	430	155	10.0	15	2.0	200	280	11	<1	0.14	0.10	0.83	
	6/21/01	7.10	920	600	500	182	12	14	2.2	210	310	33	<1	0.13	0.11	0.25	
7/21/04	7.30	910	590	490	180	9.5	17	2.3	220	280	9.6	<1	0.31	0.10	0.16		
9/27/06	7.40	840	612	410	150	8.8	15	1.9	240	230	8.3	<1	0.23	0.09	0.26		
Drinking Water Standards																	
Primary													45				4
Secondary																	
Recommended	6.5-8.5	900	500							250	250			0.3	0.05		2
Upper		1,600	1,000							500	500						
Short Term		2,200	1,500							600	600						

Bold indicates exceedence of standard.

Table 5-12
Olympia Groundwater General Water Quality

Well	Date	pH	Elec-trical Conduc-tivity (µhos/cm)	Total Dis-solved Solids (TDS)	Hard-ness	Major Cations				Major Anions			Nitrate (NO ₃)	Iron (Fe)	Man-gan-ese (Mn)	Fluor-ide
						Cal-cium (Ca)	Mag-ne-sium (Mg)	So-dium (Na)	Potas-sium (K)	Bicar-bonate (HCO ₃)	Sul-fate (SO ₄)	Chlor-ide (Cl)				
Pas-1	4/27/68		64	77	30	11	1	8.1	1.1		0.9	3.8	<0.1	0.08		<0.1
	6/19/78	6.9	98	64	26	9.1	0.87	21	0.9	33	2.3	12	0.6	0.14	<0.01	0.18
Pas-2	2/2/76		240								53	10	59			
	2/29/76		180	126							9	16	1.8			
	6/12/79		196	122							43	12	1.1			
Pas-3	2/26/75		123	122							12	13	21			
	2/2/76		187								10	14	28			
	2/17/76		164								1	14	30			
	7/29/76		120	91							5	14	10			
	8/7/76		219	153							<0.2	60	28			
	6/12/79		165	114							11	18	15			
	7/8/80		167	137							13	24	15			
	10/21/80			164							4.3	24	24			
	11/5/80		196	259							4.4	24	32			
	12/15/80												42			
	1/6/81												38			
	2/2/81												38			
	7/23/81	7.7	205	134	36	11.3	1.9	16.9	1.6	25	2.9	26	45	0.14	0.01	0.2
	8/30/82			130								20	56			
	9/21/82			130								22	40			
11/22/83			150								26	45				
1/17/84			150								25	54				
Pas-4	7/29/76		133	93							0.4	21	9.3			
	5/4/79		125	140							1.6	34	17			
	7/23/81	7.2	152	98	32.5	9.7	2	13	1.2	22.4	1.9	24	26	0.03	<0.005	0.1
	6/29/82	6.6	190	124	50	16	3	13	1	29	<1	21	32	0.15	0.01	<0.1
	8/30/82			105								20	35			
	9/21/82			125								22	27			
	11/23/83			122								30	45			
	1/17/84			135								20	48			
3/14/86			145								20	30				
Pas-5	6/14/74	8.0	140	98	22	7	1	8.5	1	44	3	1	0.6	0.05	0.04	<0.1
	6/20/74	7.6	170	119	49	13	4	14	1.8	62	14	2.5	1.5	0.14	0.02	<0.1
	12/12/75	7.5	134	102	42	14	1.6	14		47	10	9	1.9	<0.05	0.01	0.11
	12/19/75	7.4	131	59	41	14	2	12		47	<1	7	5.6	<0.05	<0.05	<0.1
	2/17/76	7.4	139		40	14	1.5	12		46	9	7	1.8	0.4	0.02	0.12
	7/29/76		133	84							0.8	8	1.8			
	6/12/79	7.2	138	104	34	11	1.6	11	1.4	38	9.2	12	0.6	<0.01	<0.01	0.29
	7/23/81	7.9	142	92	33	10.8	1.5	13.1	1.7	46	1.6	16	1.9	0.03	<0.005	0.2
	9/2/81	8.0	136	87	28	9.4	1.2	13.4	1	48	6.2	16	2.6	0.03	0.005	0.16
	6/29/82	6.8	170	110	45	15	2	15	1	42	<1	13	20	ND	ND	0.1
	7/20/83	7.1	150	97	33	11	1.5	14	<1	47	<5	16	11	0.04	<0.005	0.2
	3/14/86			120								11	1.3			
	5/14/86	8.1	180	120	33	11	1	14	2	38	<10	16	12	<0.05	<0.01	<0.1
	4/11/89	7.3	150	96	38	13	1.4	16	1.2	43	7.6	10	1.4	<0.05	<0.03	0.13
	10/19/90													<0.05		
7/23/92	6.7	185	120	45	15	2	14	0.8	43	<10	12	24	<0.05	0.02	0.23	
Pas-6	7/2/90	6.8	139	89	31	10	1.4	18	1.3	32	17	8	<1	0.12	<0.03	0.18
	7/23/92	7.0	170	110	45	15	2	14	1.1	48	18	<10	1.2	0.63	0.03	0.27
	5/11/95	7.2	175	115	64	22	2.4	14	1.4	55	16	8.1	<1	0.52	0.02	0.1
	8/19/98	7.3	185	125	44	16	1	14.5	1.1	49	22	7.5	<1	0.34	<0.015	<0.2
	8/17/00	7.2	180	110	49	18	1.2	15	1.1	49	22	7.6	<1	0.26	0.02	0.28
	6/7/01	7.2	180	120	55	20	1.3	14	0.94	51	22	8.7	<1	0.22	0.02	<0.1
	7/24/03	6.9	190	120	56	20	1.4	17	1.3	53	23	8.3	<1	0.31	0.03	0.11
	7/21/04	7.0	190	120	58	21	1.4	17	1.4	53	25	7.7	<1	0.43	0.03	<0.1
	6/9/05	7.2		120							26	7.6		0.5	0.03	0.1
	12/15/05	7.5		81							17	6.3		0.42		0.1
	9/27/06	7.2	210	150	58	21	1.4	15	1.3	63	31	7.7		0.4	0.03	0.1
	3/15/07													0.43		
	5/24/07													1.1		
8/30/07													0.31			
Pas-7	7/23/90	7.0	110	70	20	5.7	1.3	17	1.3	30	6.8	10	<1	0.22	<0.03	0.12
	7/21/92	7.1	105	65	52	5.5	<1	10	0.8	28	7.9	7.3	2.3	<0.05	<0.01	0.28
	5/11/95	7.1	105	69	26	8.8	1.1	13	1	29	6.9	7.1	2.1	<0.05	<0.03	<0.1
	8/19/98	7.2	145	100	25	8.7	<1	16	1.3	26	26	6.7	<1	0.16	<0.015	<0.2
	8/17/00	6.8	170	100	32	11	1.3	16	1.2	27	22	6.8	<1	0.1	0.015	0.29
	6/7/01	7.0	130	82	27	9.4	1.2	12	0.85	28	16	7.4	3.1	0.09	<0.015	<0.1
	7/17/03	6.5	130	82	27	8.9	1.2	15	1.3	28	21	7.2	1.2	0.09	<0.015	0.11
9/27/06	6.9	150	110	30	9.9	1.3	15	1.2	33	26	6.7	0.9		0.01	0.11	
MWd-2	3/1/07												0.6			
	8/22/07	7.2	587	414	200	60	11	44	2.3	150	150	17		0.03	0.031	0.07
Drinking Water Standards																
Primary													45			4
Secondary																
Recommended			6.5-8.5	900	500						250	250		0.3	0.05	2
Upper				1600	1000						500	500				
Short Term				2200	1500						600	600				

Bold indicates exceedence of standard.

Table 5-13
Pasatiempo and Manaña Woods Groundwater General Water Quality

