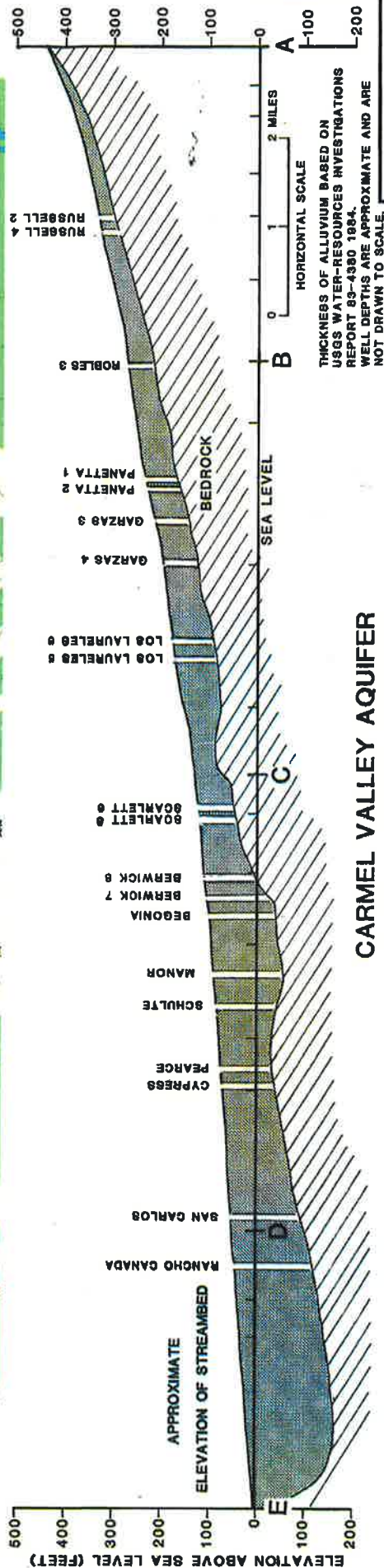
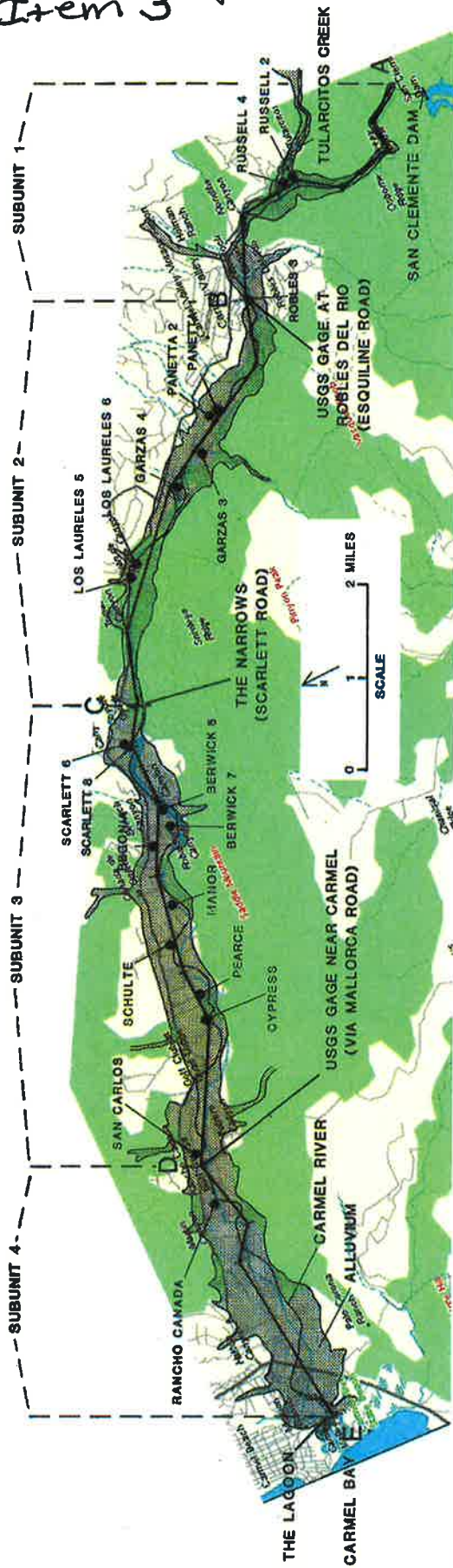


Submitted by staff
Item 3

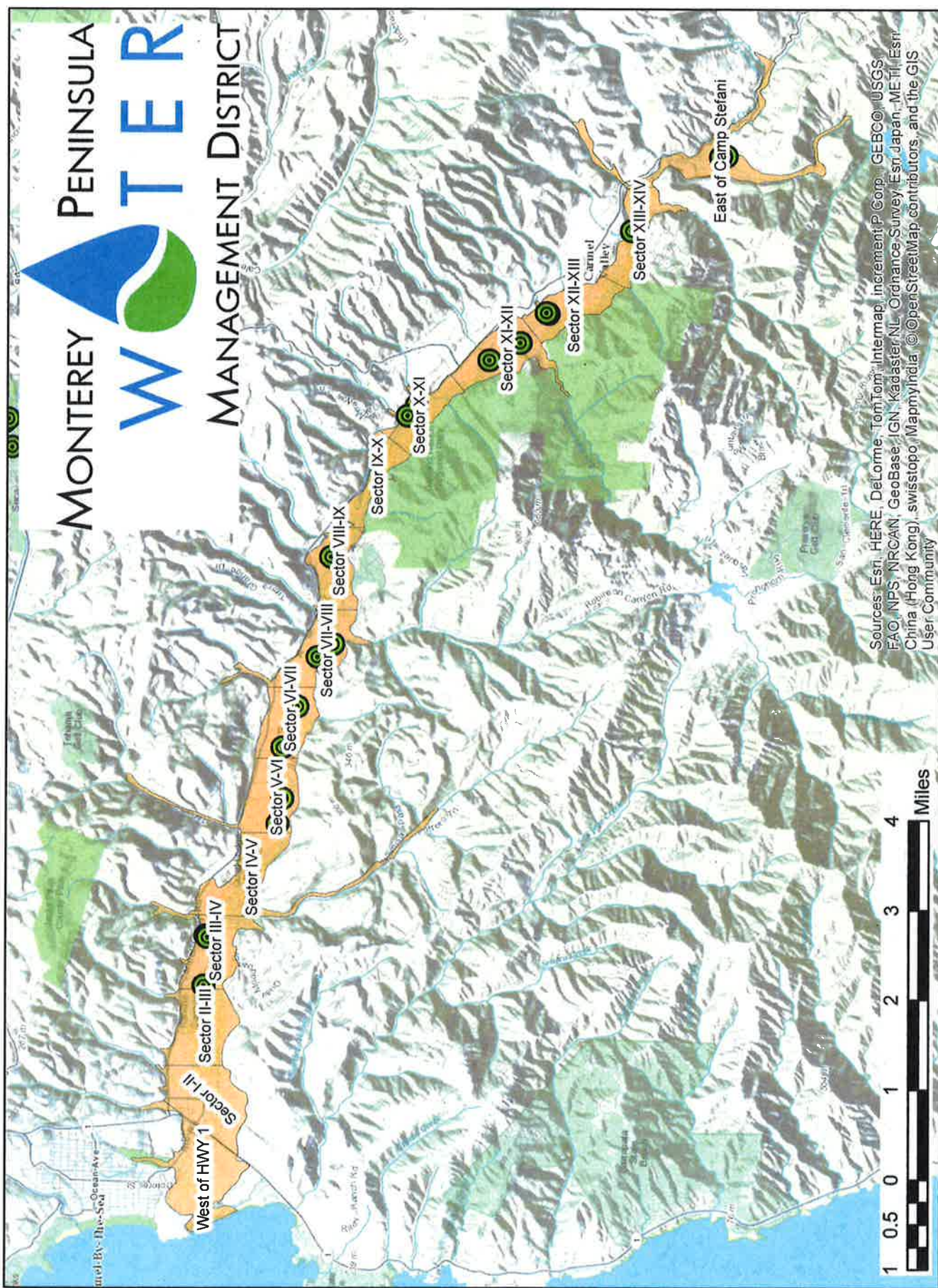


CARMEL VALLEY AQUIFER

MAP AND PROFILE OF ALLUVIAL AQUIFER SHOWING CALIFORNIA-AMERICAN WATER COMPANY PRODUCTION WELLS

JANUARY 1994

Revised 12-93



Sources: Esri, HERE, DeLorme, TomTom, Intermap, Inc, Swire, GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, MEIT, Esri China (Hong Kong), swisstopo, MapmyIndia, ©OpenStreetMap contributors, and the GIS User Community

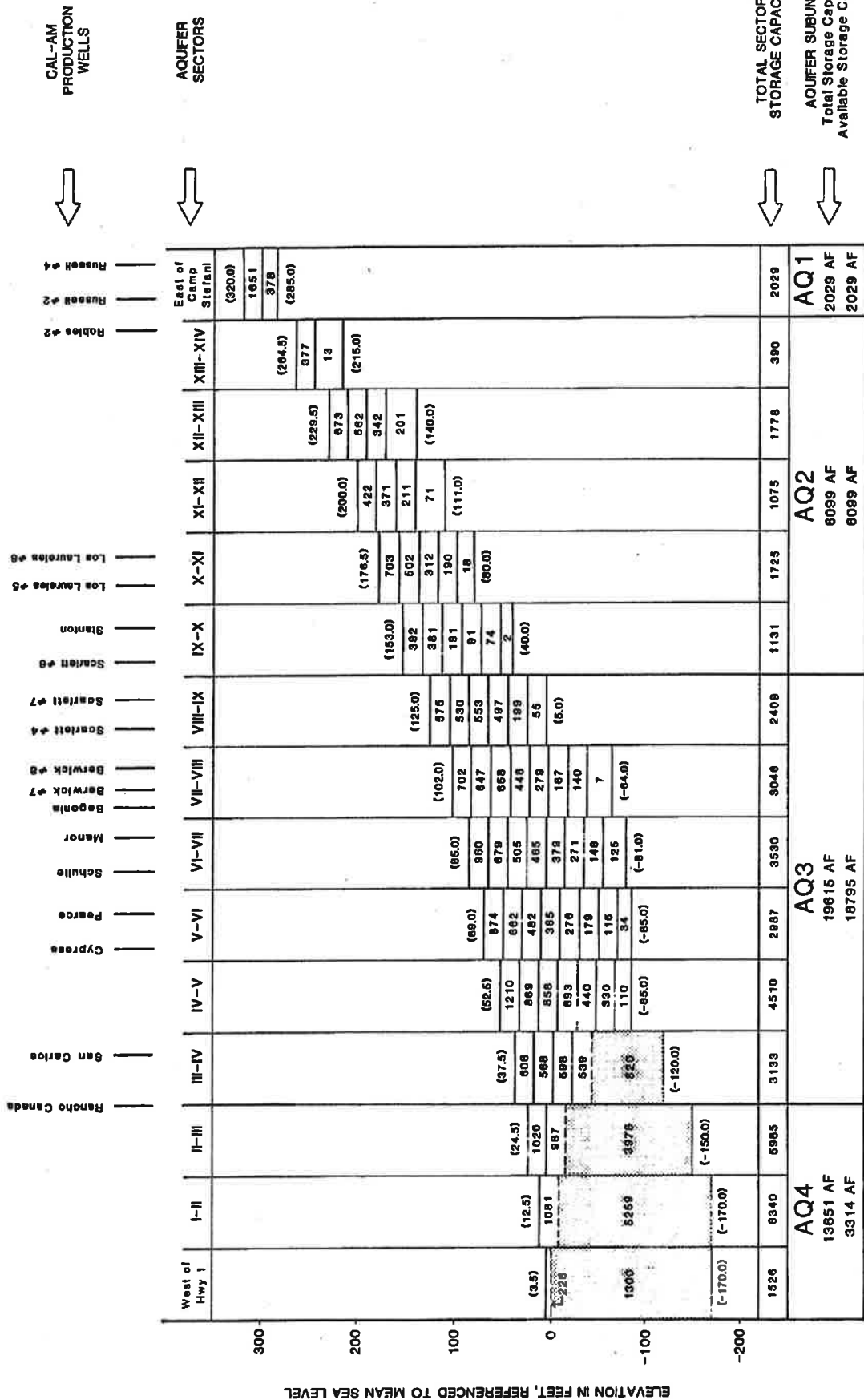


Figure 2. Longitudinal profile of the Carmel Valley Alluvial Aquifer showing total and available ground-water storage capacity.

CARMEL VALLEY AQUIFER -- ELEVATION VS. STORAGE RELATIONSHIP

(Storage values shown are in acre-feet)

AQUIFER SECTOR

0 - I		I - II		II - III		III - IV		IV - V		V - VI		VI - VII		VII - VIII		VIII - IX	
Elevation	Storage	Elevation	Storage	Elevation	Storage	Elevation	Storage	Elevation	Storage	Elevation	Storage	Elevation	Storage	Elevation	Storage	Elevation	Storage
-225.0	0	-170	0	-150	0	-120	0	-85	0	-85	0	-81	0	-64	0	5	0
-200.0	16	-147	210	-135	50	-103	56	-68	110	-71	34	-55	125	-38	7	25	55
-180.0	73	-127	526	-115	278	-83	193	-48	440	-51	149	-35	271	-18	147	45	254
-160.0	237	-107	965	-95	744	-63	448	-28	880	-31	328	-15	542	2	314	65	751
-140.0	518	-87	1546	-75	1320	-43	820	-8	1573	-11	604	5	921	22	593	85	1304
-120.0	1021	-67	2362	-55	2079	-23	1359	12	2431	9	969	25	1386	42	1039	105	1834
-100.0	1743	-47	3127	-35	2980	-3	1957	32	3300	29	1451	45	1891	62	1697	125	2409
-80.0	2658	-27	4178	-15	3978	17	2525	52	4510	49	2113	65	2570	82	2344		
-60.0	3811	-7	5259	5.0	4965	37	3133			69	2987	85	3530	102	3046		
-40.0	5056	12	6340	25.0	5985												
-20.0	6393																
0.0	7825																
5.0	8150																

SUBUNIT 4

SUBUNIT 3

AQUIFER SECTOR

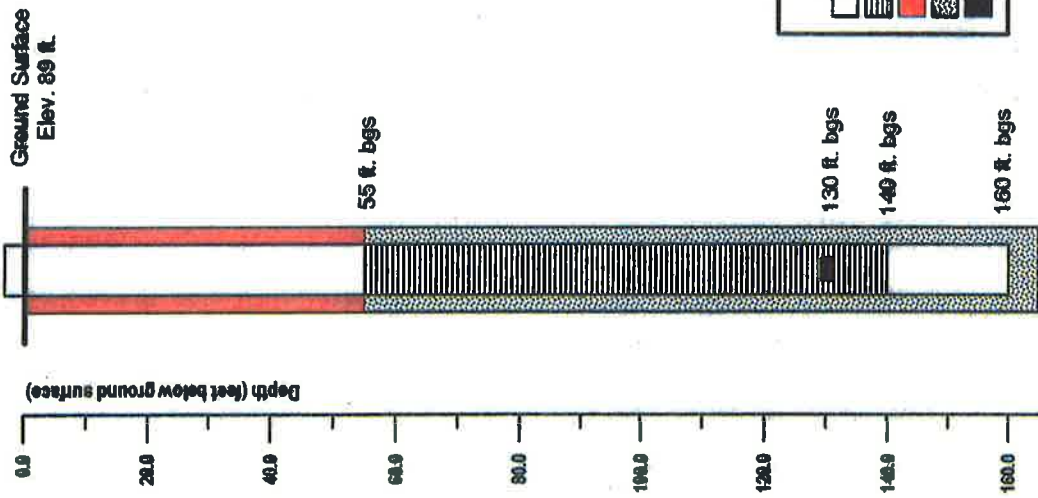
IX - X		X - XI		XI - XII		XII - XIII		XIII - XIV		XIV - XV	
Elevation	Storage	Elevation	Storage	Elevation	Storage	Elevation	Storage	Elevation	Storage	Elevation	Storage
40	0	80	0	111	0	140	0	215	0	285	0
53	2	96.5	18	140	71	169.5	201	244.5	13	300	378
73	76	116.5	208	160	282	189.5	543	264.5	390	320	2029
93	167	136.5	520	180	653	209.5	1105				
113	358	156.5	1022	200	1075	229.5	1778				
133	739	176.5	1725								
153	1131										

SUBUNIT 2

SUBUNIT 1

NOTES:

1. The ground water storage values shown above were developed from bedrock contour maps prepared by Logan (1983). The procedure used to develop the ground water values is explained in MPWMD Technical Memorandum 86-01 (Oliver, 1987).
2. The "Elevation" column indicates the elevation (referenced to mean sea level) of the top of each 20-foot depth increment within each aquifer sector. The "Storage" column indicates the cumulative volume of ground water storage at a specified elevation within each aquifer sector.



General

Well name: Pearce	Static water level: 35.0 ft bgs (avg)
State well number: T16S/R1E-22F _	Pumping water level: 55.7 ft bgs (avg)
Parcel number: 169-221-019	Date of last test: 3/25/09
Current capacity: 7.8 afd (1762 gpm)	Specific capacity: 80.1 gpm / ft

Well Construction

Date drilled: 1982	Contractor: Layne-Western
Method: Reverse Rotary	Aquifer: Lower Carmel Valley
Casing: 12-inch steel, stainless steel cellar	Screen: Wire-wrapped stainless steel, 0.080" slot

Pump & Motor

Pump type: Submersible	Motor size: 300 HP
Date pump installed: 2009	Date motor installed: 2009

Maintenance History

Mar 95 — new bowls, new motor	Nov 07 — rebuild pump, repair motor
Jul 97 — stainless drop pipe, swedge liner	Jan 08 — repair motor
Jun 01 — new pump and motor	Feb 08 — video
Jan 03 — acid treat, new motor	Jan 09 — repair pump and motor
Mar 04 — acid treat, new motor	Oct 09 — new pump and motor, video
Aug 07 — video, repair motor	

Well: Pearce

System: Lower Carmel Valley

