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2	BEFORE THE STATE WATER			
3	RESOURCES CONTROL BOARD			
4				
5				
6	In the Matter of the State Water Resources )			
7	Control Board (State Water Board))Hearing Date: July 23 - 25, 2008Hearing to Determine whether to Adopt a)			
8	Draft Cease & Desist Order against ) California American Water Regarding its ) Carmel River in Monterey County			
9	Diversion of Water from the Carmel River ) in Monterey County under Order WR 95-10 )			
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14 15	EXHIBIT MPWMD-LH17			
	EXHIBIT MPWMD-LH17 MONTEREY PENINSULA WATER MANAGEMENT DISTRICT			
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## EXHIBIT MPWMD-LH17

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Elevation NGVD 29 <sup>a</sup>	Incremental Stage Volume	Cumulative Volume			
(ft)	acre-ft	(acre-feet)			
-2.0	1.5	1.52			
-1.0	1.2	2.76			
0.0	1.8	4.61			
1.0	3.3	7.90			
2.0	5.8	13.68			
3.0	10.6	24.31			
4.0	16.8	41.12			
5.0	23.2	64.36			
6.0	35.6	99.98			
7.0	49.4	149.35			
8.0	62.9	212.25			
9.0	76.3	288.58			
10.0	93.9	382.48			
11.0	117.9	500.39			
12.0	140.8	641.19			
13.0	162.8	803.96			
14.0	187.8	991.80			
15.0	225.3	1,217.14			

Table 2: Stage-Volume Relationship based on Survey Data Collected Between 2003 and 2007

<sup>a</sup> All survey data were originally in NAVD 88. The VERTCON conversion calculator provided by the National Geodetic Survey (NGS) recommended a shift of -2.736 feet to convert from NAVD 88 to NGVD 29.

Table 3: 1997 Stage-Volum	ne Analysis <sup>a</sup>
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Elevation (ft, NGVD 29)	Cumulative Volume (acre-feet)
-2.00	0.002
-1.00	0.04
0.00	0.19
1.00	0.50
2.00	1.50
3.00	4.57
4.00	12.55
5.00	30.18
6.00	60.58
7.00	103.31
8.00	155.77
9.00	217.25
10.00	285.77

<sup>a</sup> Source: MPWMD Technical Memorandum 05-01, "Surface Water Dynamics at the Carmel River Lagoon. Water Years 1991 through 2005" (October, 2005).

Source: RMC Water and Environment (2007), Carmel River Lagoon Hydrographic Survey and Stage-Volume Relationship, prepared for Monterey Peninsula Water Management District