

HOMEWOOD MOUNTAIN RESORT

WATER SUPPLY ASSESSMENT



Prepared For:

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Table 3. Projected Annual Demand for the McKinney/Quail Sub-district

Service Area	Annual Demand (AF/Y)		
	2009	2010	2011
McKinney/Quail Sub-district	381	385	385
Proposed Project (residential)	n/a	n/a	46
Proposed Project (commercial)	n/a	n/a	5
Proposed Project (irrigation)	n/a	n/a	11
Proposed Project Subtotal	n/a	n/a	62
Total Annual Demand (AF/Y)			447

Based on the information presented in Table 3, the proposed project will require 62 AF/Y. When added to the future projected annual demand for the McKinney/Quail Sub-district (385 AF/Y), the total projected annual water demand for the McKinney/Quail Sub-district, including the proposed project and associated irrigation operations, is 447 AF/Y.

Alternative 2

North Base - MCWC Service Area.

Based on the annual water demand in this region calculated by TCPUD in their Water Master (0.84 AF/Y)(TCPUD 2002), the projected water demand for the MCWC Service Area is 134 AF/Y. The projected values for the proposed project, shown in Table 4, were calculated using the demand rates described above (Residential – 0.14 AF/Y per unit and Commercial – 0.07 AF/Y per 1,000 sf CFA). In addition to residential and commercial water demand for the proposed project, water will be used for irrigation operations. Based on schematic design (as discussed in Section 2.2), 8.3 AF/Y of water will be required for irrigation. This value is included in the projected water demand shown in Table 4.

Table 4. Projected Annual Demand for MCWC Service Area

Service Area	Annual Demand (AF/Y)		
	2009	2010	2011
MCWC	134	134	134
Proposed Project - North Base (residential)	n/a	n/a	30
Proposed Project - North Base (commercial)	n/a	n/a	4
Proposed Project - North Base (irrigation)	n/a	n/a	8
Proposed Project - North Base Subtotal	n/a	n/a	42
Total Annual Demand (AF/Y)			176

Based on information presented in Table 4, the proposed project (North Base Area) will require 42 AF/Y. When added to the future projected annual demand for the MCWC Service Area (134 AF/Y), the total projected annual water demand for the MCWC Service Area is 176 AF/Y.