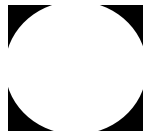


Appendix G
Status and Validity of Water Supply Assessment
And Water Supply Verification



TERRA NOVA PLANNING & RESEARCH, INC.[®]

MEMORANDUM

Date: May 24, 2013

To: Mr. Eric Flodine, VP, Strata Equity Group, Inc.

From: John D. Criste, AICP

Subject: Status and Validity of Water Supply Assessment and Water Supply Verification Prepared for the Hacienda at Fairview Valley Specific Plan

In September 2008, Terra Nova Planning & Research, Inc. prepared a Water Supply Assessment (WSA) and Water Supply Verification (WSV) report for the Hacienda at Fairview Valley Specific Plan located in the Apple Valley area of San Bernardino County, California. In addition to evaluating water demand for the project and the project's cumulative demand and impacts to supplies, the Water Supply Assessment and Verification evaluated existing and future water supply sources that the local water purveyor, Apple Valley Ranchos Water company, will use to meet future demand throughout its service area. The WSA/WSV was reviewed and adopted by the Apple Valley Ranchos Water Company on November 19, 2008.

The WSA and WSV were prepared in accordance with Senate Bill 610 and Senate Bill 221, respectively, and associated California Water Code Section 10910 *et. seq.*. The analysis was conducted for the 22-year period from 2008 through 2030. There have been updates to related planning documents and legislation since the approval of the WSA/WSV in 2008. However based on our research, the data and information relied upon in preparing these analyses remains valid for the following reasons:

1. **2010 Urban Water Management Plan (UWMP) Updates:** Both the Apple Valley Ranchos Water Company (AVRWC) and Mojave Water Agency (MWA) have adopted 2010 UWMP updates that supersede the 2005 UWMPs used in the 2008 the WSA/WSV analysis of the Hacienda at Fairview Valley Specific Plan. Both 2010 UWMPs ensure that the corresponding agency can properly provide and maintain water supplies for the next 20-25 years (MWA projected through 2030, AVRWC projected through 2035). In addition, both UWMPs account for more aggressive population growth rates (approximately +0.2%) as compared to projections in the 2005 UWMPs. Based on this information, both the AVRWA and MWA have adequate water supplies to meet future demands of the population (including the proposed project) during average, single-dry, and multiple-dry years.

Sources:

"2010 Urban Water Management Plan." Apple Valley Ranchos Water Company. Prepared by Kennedy/Jenks Consultants, adopted June 23, 2011.

"2010 Urban Water Management Plan." Mojave Water Agency. Prepared by Kennedy/Jenks Consultants, adopted June 9, 2011.

2. **California Law/Regulation:**

- a. *CA 2010 Urban Water Management Planning Act* supersedes the 2005 Urban Water Management Planning Act used to develop the 2005 UWMPs. The 2010 UWMPs are in adherence to the 2010 Act, and therefore there are no significant changes to the validity of the analysis conducted for the proposed project.
- b. *2009 Water Conservation Act (SBX7-7)*: Requires a statewide 20% reduction in urban per capita water use by 2020. It requires each urban retail supplier to develop and report a water use target in the retailers 2010 UWMP. For instance, agencies must determine baseline water use and set reduction targets according to specified requirements. The act also requires that agricultural water suppliers prepare plans and implement efficient water management practices. The 2010 UWMPs (AVRWA and MWA) meet the requirements of this Act.

Sources:

California Department of Water Resources. <http://www.water.ca.gov>. Accessed May 17, 2013.

3. **2004 Regional Water Management Plan** is a long-term document that describes MWA resource management and development strategy through the year 2020. Although a new Management Plan has not superseded this document, updates have been provided in Appendix G of the MWA 2010 UWMP to demonstrate current reliability of the 2004 Plan.

Sources:

"2004 Regional Water Management Plan." Mojave Water Agency. Prepared by Schlumberger Water Services, adopted February 24, 2005.

"2010 Urban Water Management Plan: Appendix G," Mojave Water Agency. Prepared by Kennedy/Jenks Consultants, adopted June 9, 2011.

4. **Mojave Basin Watermaster Annual Report: 2011-2012:** This report provides annual updates pertaining to the Watermasters (MWA) activities and water supply conditions for water year 2011-2012, including water production and water transfers. The 2011-2012 report indicates that the Alto subarea (project area) is stable, in that supply and demand are generally in balance. The previous Watermaster Annual report was used in the project WSA to explain the MWA's responsibilities/legal obligations (collecting payments/fees, allocating water supply), to provide an accounting of AVRs FPA, and to provide general info such as groundwater storage capacity, etc. These responsibilities still apply to MWA, therefore there will be no impact to the validity of the WSA and WSV prepared for this project.

Sources:

"19th Annual Report of the Mojave Water Basin Area Watermaster for Water Year 2011-12." Mojave Water Agency. Prepared by Schlumberger May 1, 2013.

5. **State Water Project Delivery Reliability Report: 2011 Final:** The water supply delivery estimates in this (the most current) report reveal a steady decrease in supplies overtime (since 2008/09) due to restrictions based on biological opinions of the US Fish and Wildlife Service (2008) and National Marine Fisheries Service (2009). Appendix F of the MWA 2010 UWMP addresses these changes to SWP Supplies. The 2011 report and those following are being used for water planning purposes (i.e. 2010 UWMP), and will not affect the validity of the project WSA/WSV.

Sources:

"The State Water Project Final Delivery Reliability Report 2011." Adopted June 2012

"2010 Urban Water Management Plan: Appendix F," Mojave Water Agency. Prepared by Kennedy/Jenks Consultants, adopted June 9, 2011.

In conclusion, there have been no substantive changes in California law, agency reports or planning documents, or long-term water supply projections that would affect the validity or conclusions of the WSA/WSV prepared for the Hacienda at Fairview Valley Specific Plan project.

JDC/kc

cc
Hacienda WSA File