

Appendix A

Revisions to the 2009 WSMP 2040

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Inclusion of the Expand Los Vaqueros Reservoir Component in the WSMP 2040 Portfolio

The development and selection of components for potential inclusion in the WSMP 2040 began with a comprehensive range of options that the Board of Directors narrowed down through multiple stages of screening, as described in Chapter 6, Building Blocks of the Plan. The Board of Directors held public workshops in 2007 and 2008 to evaluate the feasibility of individual components that would ultimately make up the larger proposed portfolios, and following each Board of Directors workshop, the same material on component development and selection was presented and discussed with a Citizens Liaison Committee.

EBMUD used the exclusion criteria in its first stage of screening to eliminate those components that demonstrated “fatal flaws” under any of the four planning objectives. All of the statewide components excluded during this first-stage screening (including the Expand Los Vaqueros Reservoir component) were in early levels of development, and they were excluded because EBMUD lacked adequate information to determine if they could be used to meet projected water demands through 2040. In the time period since the component screening process was undertaken, plans to expand Los Vaqueros Reservoir have moved forward and Contra Costa Water District has completed environmental documents for this project. As part of the changes to the WSMP 2040, EBMUD conducted a program-level review of the ability to participate in the expansion of Los Vaqueros Reservoir and added this component to the WSMP 2040 Portfolio as a possible supplemental supply project option that could be implemented in the future to meet EBMUD’s dry year water needs.

A further description of the potential options for the Expand Los Vaqueros Reservoir component has been added to Section 6.1.4, Supplemental Supply.

Removal of the Enlarge Pardee Reservoir Component from the WSMP 2040 Portfolio

The Enlarge Pardee Reservoir component was originally included in the WSMP 2040, along with a regional desalination effort and other regional upcountry projects, as a longer-term option that EBMUD could consider pursuing as demands increased in the future beyond 2025.

As noted in this document, there may be a remaining long-term Need for Water after identified short-term supplemental supply options, including water transfers and expansion of the Bayside Groundwater project, have been fully explored. This analysis has not changed; however, the result of the addition of the current expansion of Los Vaqueros Reservoir to the supplemental supply project options is that it is possible to move some of the longer term projects included in the 2009 WSMP 2040 Portfolio out beyond the planning horizon of the thirty-year program set forth in the WSMP 2040.

On April 24, 2012, the EBMUD Board determined that the Enlarge Pardee Reservoir component would be removed from the WSMP 2040 list of potential supplemental supply projects for construction during the planning horizon of the WSMP 2040.

Revised Yield for the Regional Desalination Component

The Regional Desalination supplemental supply component has a reduced expected yield as compared to the expected yield of 20 MGD presented in the 2009 WSMP 2040. The revised



expected yield for EBMUD from this component is 4 to 5 MGD, although the program-level modeling results and cost estimates for this component remain unchanged.

Refinement to the Adjusted Demand Projections

The projected water demand presented in the WSMP 2040 (Section 4.1) has not changed; however, the level of cumulative conservation and recycled water through 2040 has been updated since original publication of the WSMP 2040 in October 2009. Therefore, the adjusted demand projections under the WSMP 2040 Portfolio have been revised slightly in Table 4-2.

In-Text Revisions to the 2009 WSMP 2040 Plan Document

Table A-1 provides a summary of the changes that have been made throughout this revised WSMP 2040 Plan. Revisions have been made based on decisions made by the Board of Directors, as well as changes in conditions since the WSMP was originally finalized in 2009.

Table A-1: Summary of Global Edits to the 2009 WSMP 2040 Plan Document

2009 WSMP 2040	Revised WSMP 2040 (April 2012)
Preferred Portfolio	WSMP 2040 Portfolio
Mokelumne Inter-Regional Conjunctive Use Project (IRCUP) /San Joaquin Groundwater Banking / Exchange	San Joaquin Basin Groundwater Banking / Exchange
Expand Los Vaqueros Reservoir	Added as a supplemental supply component of the WSMP 2040 Portfolio
The Enlarge Pardee Reservoir, Enlarge Lower Bear Reservoir and IRCUP / San Joaquin Groundwater Banking / Exchange were shown as coupled	These Upcountry projects have been de-coupled and the potential Enlarge Pardee Reservoir component is not part of the WSMP 2040 Plan

In-Text Revisions to the 2009 WSMP 2040 Plan Document

Chapter 2

The description of the WSMP 2040 Portfolio was revised to include the Expand Los Vaqueros Reservoir component and the removal of the Enlarge Pardee Reservoir component. Figures 2-3 and 2-7, as well as Tables 2-3 and 2-4, were also revised to incorporate these changes. Figure 2-4, showing the implementation of the 2009 WSMP 2040 Portfolio example scenario, remains in this Plan document, as modeling and costing was conducted for that scenario. A new figure, Figure 2-5, has been added to depict an example implementation scenario for the revised WSMP 2040 Portfolio.

Chapter 3

The descriptions of the Bayside Phase 1 and Freeport Regional Water Project supplemental supplies provided in Section 3.2.3, New Supplemental Supplies, have been updated to reflect the current status of these projects. Table 3-6 describing committed recycled water projects has also been updated to reflect the current status of these projects. Figure 3-2 has also been updated to include data through 2011 and a description of the requirements of Senate Bill x7-7 has been added.

Chapter 4

In Section 4.1, Projecting Water Demand, it is clarified that the demand projections were developed prior to 2010, so the 2010 demands presented in this document are projections (not historical demands).

Table 4-2, Figure 4-5, Figure 4-8 and Figure 4-9 have been removed from the WSMP 2040.

Table 4-2 (formerly Table 4-3 in 2009 WSMP 2040) has been revised for consistency with the UWMP 2010 and now only presents the 15% rationing scenario.

Chapter 5

A new section has been added to Chapter 5 describing the Board meetings and public meetings that were conducted as part of the revision effort, subsequent to the legal challenge.

Chapter 6

Section 6.1.4, Supplemental Supply, has been revised to include a description of the Expand Los Vaqueros Reservoir component as well as an explanation of why it is no longer eliminated in the first state of component screening. The extended description of the Enlarge Pardee Reservoir component has also been removed from this section. Section 6.2.5, Supplemental Supply Components Screening, has also been revised to describe that the Enlarge Pardee Reservoir component has been removed from the WSMP 2040 Portfolio.

A note was added to the bottom of Figure 6-17, stating that the portfolio evaluation was prepared prior to the CEQA revision effort. The discussion of Portfolio D in Section 6.3.2, Primary Portfolios, has been revised to state that the Enlarge Pardee Reservoir component has been removed from the WSMP 2040 Portfolio.

Section 6.3.3, WSMP 2040 Portfolio, has also been revised to remove the Enlarge Pardee Reservoir component and add the 160 TAF Expand Los Vaqueros Reservoir component as potential supplemental supply component of the WSMP 2040



In-Text Revisions to the 2009 WSMP 2040 Plan Document (Continued)

Portfolio. A note has also been added to the bottom of Table 6-20 stating that cost information for the 160 thousand acre-feet (TAF) Expand Los Vaqueros Reservoir component is not provided, as cost modeling was not performed as part of the revision of the WSMP 2040. It is also noted that the yield of the Regional Desalination component has been revised to 4 to 5 MGD since the 2009 WSMP 2040; however, all modeling results and cost estimates were based on the yield assumption of 20 MGD.

Appendices

Appendix B: Building Blocks of the Plan - Additional Information

Section 1.1.4, Supplemental Supply Screening, has been revised to describe that the 160 TAF Expand Los Vaqueros Reservoir component has been added to the WSMP 2040 Portfolio as a possible supplemental supply project option as part of the revision of the WSMP 2040. A reference to the WSMP 2040 Section 6.1.4, Supplemental Supply, has also been added where a full description of the Expand Los Vaqueros Reservoir component is now provided.

Although none of the component or portfolio scoring has been changed as part of the revision of the WSMP 2040, several notes have been added to state that scoring, as presented, was prepared prior to the CEQA revision effort.

Appendix C: 2040 Demand Study

No revisions were made to the 2040 Demand Study as part of the revision of the WSMP 2040.

Appendix D: Technical Memoranda

No revisions were made to the modeling technical memoranda as part of the revision of the WSMP 2040.

Appendix E: WSMP 2040 Meeting Presentation and Board of Directors Workshops

Additional presentations have been added to the end of Appendix E1, WSMP 2040 Meeting Presentation and Board of Directors Workshops, to document the Board of Directors Workshops that were conducted in 2011 and 2012 during the process of revising the PEIR and WSMP 2040.