

1 **Appendix 5D**

2 **Municipal and Industrial Water**
3 **Demands and Supplies**

4 **5D.1 Introduction**

5 Most water supply agencies in California that serve more than 3,000 connections
6 or more than 3,000 acre-feet of water prepare Urban Water Management Plans
7 (UWMPs) for submittal to the California Department of Water Resources. The
8 UWMPs include water demand and water supply projections through at least
9 2030. The future water demands include assumptions for implementation of
10 water conservation measures to meet the statewide mandate to reduce municipal
11 and industrial (M&I) water demand by 20 percent by 2020.

12 Information from the UWMPs for Central Valley Project (CVP) and State Water
13 Project (SWP) water users was used as input information in the CWEST model
14 (see Appendix 19A, CWEST Model) to project M&I water supply economic
15 changes. For small water users that did not prepare a UWMP, information was
16 obtained from water master plans and integrated regional water management
17 plans. This information is summarized in the following sections of this appendix.
18 The tabular format is consistent for each water user and was established to be
19 consistent with the input files for the CWEST model; therefore, there are rows in
20 the tabular format that are not used for some M&I water users.

21 **5D.2 Central Valley Region**

22 This section includes summaries of water demand and water supply projections
23 for M&I users of CVP and SWP water supplies in the Central Valley Region,
24 including water rights users on the Sacramento and American rivers. The M&I
25 water users are generally organized geographically in this section from north to
26 south. See Tables 5D.1 through 5D.31.

1 **Table 5D.1 Bella Vista Water District (BVWD)**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	14,567	BVWD serves portions of Redding. Assumed growth rate from City of Redding <i>2010 Urban Water Management Plan</i> .
Water Sales to Others	–	–
Total Demand	14,567	–
Water Supplies for No Action Alternative (NAA)		
CVP Water Supplies	14,445	CVP Water Service Contract 24,578 acre-feet, includes 24,000 acre-feet (14-06-200-851A-LTR1) and 578 acre-feet assigned from Shasta County Water Agency initial CVP Water Service Contract (14-06-200-3464A-LTR1).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	122	Assumed no increase in wells.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	14,567	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	–	–

1 **Table 5D.2 Centerville Community Services District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	3,185	–
Water Sales to Others	–	–
Total Demand	3,185	–
Water Supplies for NAA		
CVP Water Supplies	3,185	CVP Water Exchange Contract 900 acre-feet (pre-1914 water right on Clear Creek) and CVP Water Service Contract 2,900 acre-feet, (14-06-200-3367A-LTR1).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	–	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	3,185	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	–	–
OTHER INFORMATION	–	Sanitary Survey states that 25% of 35-mgd Water Treatment Plant is owned by Centerville Community Services District (Redding Area Water Suppliers. 2011. <i>Redding Area Watershed Sanitary Survey</i>).

2 Note:
3 mgd = million gallons per day

1 **Table 5D.3 City of Shasta Lake**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	2,455	City of Shasta Lake. 2014. 2010 Urban Water Management Plan, Administrative Draft. July.
Water Sales to Others	470	-
Total Demand	2,925	-
Water Supplies for NAA		
CVP Water Supplies	2,885	CVP Water Exchange Contract 900 acre-feet (pre-1914 water right on Clear Creek) and CVP Water Service Contract 2,900 acre-feet, (14-06-200-3367A-LTR1).
SWP Water Supplies	-	-
Other Imported Water Supplies	-	-
Local Surface Water Supplies	-	-
Groundwater	-	-
Recycled Wastewater	112	-
Recycled Stormwater	-	-
Desalination	-	-
Transfers/Exchanges	-	-
Conservation	-	-
Total Water Supplies for NAA	2,997	
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	-	-
OTHER INFORMATION	-	Supplies do not include transfers not approved by Reclamation due to cold water pool issues: Anderson-Cottonwood Irrigation District 2,000 acre-feet, MCM Properties at 325 acre-feet. Future project would develop facilities that would allow these transfers and result in 2,325 acre-feet normal year and 2,093 acre-feet in 3rd multiple dry years per 2010 UWMP (with reference to support from Reclamation).
Total Potential Future Water Supplies	2,997	-

1 **Table 5D.4 Clear Creek Community Services District (CCCSD)**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	7,410	CCCSD serves areas near Redding. Assumed growth rate from City of Redding <i>2010 Urban Water Management Plan</i> .
Water Sales to Others	–	–
Total Demand	7,410	–
Water Supplies for NAA		
CVP Water Supplies	7,410	CVP Water Service Contract 15,300 acre-feet, (14-06-200-4894A-LTR1).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	–	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	7,410	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	–	–
OTHER INFORMATION	–	Sanitary Survey states that 25% of 35-mgd Water Treatment Plant is owned by Centerville Community Services District (Redding Area Water Suppliers. 2011. <i>Redding Area Watershed Sanitary Survey</i>).

1 **Table 5D.5 City of Redding**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	27,852	City of Redding. 2012. <i>2010 Urban Water Management Plan</i> . July 17.
Water Sales to Others	–	–
Total Demand	27,852	–
Water Supplies for NAA		
CVP Water Supplies	27,140	CVP Sacramento River Settlement Contract 21,000 acre-feet. CVP Water Service Contract (Buckeye Zone) 6,140 acre-feet (14-06-200-5272A-LTR1).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	13,405	Increased supply from new wells.
Recycled Wastewater	19	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	40,564	–
Possible Future Water Supplies	–	Not quantified. Historical transfers up to 4,000 acre-feet (3,000 acre-feet during drought) from Anderson-Cottonwood Irrigation District.
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	–	–

1 **Table 5D.6 Mountain Gate Community Services District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	2,180	Assume full use of CVP water supplies.
Water Sales to Others	-	-
Total Demand	2,180	
Water Supplies for NAA		
CVP Water Supplies	1,350	Assume full use of CVP water supplies.
SWP Water Supplies	-	-
Other Imported Water Supplies	-	-
Local Surface Water Supplies	-	-
Groundwater	830	Assume no increase in wells.
Recycled Wastewater	-	-
Recycled Stormwater	-	-
Desalination	-	-
Transfers/Exchanges	-	-
Conservation	-	-
Total Water Supplies for NAA	2,180	-
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	-	-
Total Potential Future Water Supplies	2,180	-

1 **Table 5D.7 Shasta Community Services District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	1,000	Assume full use of CVP water supplies.
Water Sales to Others	-	-
Total Demand	1,000	-
Water Supplies for NAA		
CVP Water Supplies	1,000	Assume full use of CVP water supplies.
SWP Water Supplies	-	-
Other Imported Water Supplies	-	-
Local Surface Water Supplies	-	-
Groundwater	-	-
Recycled Wastewater	-	-
Recycled Stormwater	-	-
Desalination	-	-
Transfers/Exchanges	-	-
Conservation	-	-
Total Water Supplies for NAA	1,000	
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	-	-
Total Potential Future Water Supplies	1,000	-

1 **Table 5D.8 Shasta County Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	1,022	Assume full use of CVP water supplies.
Water Sales to Others	-	-
Total Demand	1,022	-
Water Supplies for NAA		
CVP Water Supplies	1,022	Assume full use of CVP water supplies.
SWP Water Supplies	-	-
Other Imported Water Supplies	-	-
Local Surface Water Supplies	-	-
Groundwater	-	-
Recycled Wastewater	-	-
Recycled Stormwater	-	-
Desalination	-	-
Transfers/Exchanges	-	-
Conservation	-	-
Total Water Supplies for NAA	1,022	-
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	-	-
Total Potential Future Water Supplies	1,022	-

1 **Table 5D.9 City of Yuba City**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	29,041	Yuba City. 2011. <i>2010 Urban Water Management Plan, Public Review Document</i> . June.
Water Sales to Others	–	–
Total Demand	29,041	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	8,000	SWP Contract 9,600 acre-feet. Long-term average based on Department of Water Resources. 2013. <i>Final Initial Study/Negative Declaration State Water Project Supply Allocation Settlement Agreement</i> . September.
Other Imported Water Supplies	–	–
Local Surface Water Supplies	15,500	Up to 6,500 acre-feet State Water Resources Control Board (SWRCB) Permit 14045. Up to 9,000 acre-feet SWRCB Permit 18558.
Groundwater	3,248	In the future, a second well could be constructed for 4 mgd; assume 4,500 acre-feet based on same production as existing well.
Recycled Wastewater	–	Reclamation use is limited to 140 acre-feet of landscape irrigation at the Wastewater Treatment Facility.
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	4,500	Up to 4,500 acre-feet from North Yuba Water District.
Conservation	–	–
Total Water Supplies for NAA	31,248	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	31,248	–

1 **Table 5D.10 City of West Sacramento**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	20,123	City of West Sacramento. 2011. <i>2010 Urban Water Management Plan, Public Review Document</i> . October.
Water Sales to Others	–	–
Total Demand	20,123	
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	23,600	CVP Sacramento River Settlement Contract 23,600 acre-feet (0-07-20-W0187) in accordance with Appropriative Water Right on Sacramento River (State Water Resources Control Board Permit Number 18150).
Other Imported Water Supplies	–	–
Local Surface Water Supplies	5,000	5,000 acre-feet as part of North Delta Water Agency water rights, in accordance with agreements with the State of California.
Groundwater	–	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	28,600	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	28,600	–

1 **Table 5D.11 El Dorado County Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	12,054	11,741 acre-feet for Georgetown Divide Public Utility District and 313 acre-feet for Grizzly Flats Community Service District (including County areas) per El Dorado County Water Agency. 2014. <i>Water Resources Development & Management Plan (December 2007) 2014 West Slope Update, Final Draft.</i> October. Includes agricultural expansion for trees, vines, and pasture. Remaining areas of community development within El Dorado Irrigation District (EID).
Water Sales to Others	–	–
Total Demand	12,054	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	12,200	12,200 acre-feet from Stumpy Meadows Reservoir on Pilot Creek per Georgetown Divide Public Utility District. 2011. <i>2010 Urban Water Management Plan.</i> July 22.
Groundwater	150	150 acre-feet for Grizzly Flats Community Service District per El Dorado County Water Agency. 2014. <i>Water Resources Development & Management Plan (December 2007) 2014 West Slope Update, Final Draft.</i> October.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	12,350	–

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Possible Future Water Supplies	–	<p>9,000 acre-feet of the 15,000-acre-foot CVP water service contract authorized by Public Law 101-514 (also known as “Fazio Water”) for Georgetown Divide Public Utility District per El Dorado County Water Agency. 2014. <i>Water Resources Development & Management Plan (December 2007) 2014 West Slope Update, Final Draft</i>. October. Assumed that 6,000 acre-feet would be used by EID.</p> <p>150 acre-feet from a new reservoir (not planned) per El Dorado County Water Agency. 2014. <i>Water Resources Development & Management Plan (December 2007) 2014 West Slope Update, Final Draft</i>. October.</p> <p>670 acre-feet from lining canals in Georgetown Divide Public Utilities District per El Dorado County Water Agency. 2014. <i>Water Resources Development & Management Plan (December 2007) 2014 West Slope Update, Final Draft</i>. October.</p> <p>40,000 acre-feet from water rights applications State Water Resources Control Board Filed Applications Nos. 5644 and 5645 for storage of water from Sacramento Municipal Utility District (SMUD) Upper American River Project and diversion at Folsom Lake with an exchange with an upstream water rights holder. To be shared with EID. Per El Dorado County Water Agency. 2014. <i>Water Resources Development & Management Plan (December 2007) 2014 West Slope Update, Final Draft</i>. October.</p> <p>10,300 acre-feet from diversion of water from South Fork of the Rubicon River with a negotiation under the El Dorado-SMUD Cooperation Agreement per El Dorado County Water Agency. 2014. <i>Water Resources Development & Management Plan (December 2007) 2014 West Slope Update, Final Draft</i>. October.</p> <p>1,000 acre-feet from dry year conservation efforts per El Dorado County Water Agency. 2014. <i>Water Resources Development & Management Plan (December 2007) 2014 West Slope Update, Final Draft</i>. October.</p>

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Subtotal Potential Future Water Supplies	9,000	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	21,350	It is assumed that not all future projects would be implemented. Therefore, total potential future water supplies would be substantially less.

1 **Table 5D.12 El Dorado Irrigation District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	68,290	Includes 12,581 acre-feet for “Agriculture and ditches” per El Dorado Irrigation District. 2011. <i>Urban Water Management Plan, 2010 Update</i> . July.
Water Sales to Others	1,330	–
Total Demand	69,620	–
Water Supplies for NAA		
CVP Water Supplies	7,550	CVP Water Service Contract (C 14-06-200-1357A-LTR1) 7,550 acre-feet diverted from Folsom Lake for portion of El Dorado Hills per El Dorado Irrigation District. 2011. <i>Urban Water Management Plan, 2010 Update</i> . July.
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	59,640	<p>23,000 acre-feet from Jenkinson Lake on Park Creek (actually 33,400 acre-foot water right L11835 and L11836, with restriction of 23,000 acre-feet/two years).</p> <p>4,560 acre-feet from Weber Creek (Farmer’s Free Ditch) and Reservoir, Slab Creek (Summerfield Ditch), and Hangtown Creek (Gold Hill Ditch) diverted from Folsom Lake using a 40-year Warren Act Contract (signed March 1, 2011).</p> <p>17,000 acre-foot El Dorado Hydroelectric Project 184 at Forebay Reservoir under State Water Resources Control Board Permit 21112.</p> <p>15,080 acre-feet from Project 184 at El Dorado Forebay pre-1914 water rights. El Dorado Irrigation District. 2011. <i>Urban Water Management Plan, 2010 Update</i>. July; and El Dorado Irrigation District. 2012. <i>United States Bureau of Reclamation Five-Year Water Management Plan, 2010 Update</i>. July.</p> <p>El Dorado Irrigation District (EID) acquired Project 184 from Pacific Gas & Electric Company in 1999 with water rights from the South Fork American River and conveyed in the El Dorado Canal to El Dorado Forebay and Jenkinson Lake; however, needs a Warren Act Contract to divert at Folsom Reservoir.</p>

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Local Surface Water Supplies (continued)	59,640	EID also has pre-1914 water rights on North Fork Cosumnes River, Clear Creek, and Squaw Hollow Creek with conveyance in the Crawford Ditch; and 1933 appropriative water rights on Middle Fork Cosumnes River to serve Outingdale only. Jenkinson Lake supply could be reduced from 23,000 to 20,920 acre-feet per El Dorado Irrigation District. 2013. <i>2013 Water Resources and Service Reliability Report</i> August 12.
Groundwater	–	–
Recycled Wastewater	7,730	7,730 acre-feet per El Dorado Irrigation District. 2011. <i>Urban Water Management Plan, 2010 Update</i> . July.
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	74,920	–
Possible Future Water Supplies	–	Up to 40,000 acre-feet under the Sacramento Municipal Utility District (SMUD)-El Dorado Agreement from SMUD reservoirs per El Dorado Irrigation District. 2011. <i>Urban Water Management Plan, 2010 Update</i> . July. 7,500 acre-feet of the 15,000-acre-foot CVP water service contract authorized by Public Law 101-514 (also known as “Fazio Water”) per El Dorado Irrigation District. 2011. <i>Urban Water Management Plan, 2010 Update</i> . July. However, the available supply may only be 6,000 acre-feet per El Dorado County Water Agency. 2014. <i>Water Resources Development & Management Plan (December 2007) 2014 West Slope Update, Final Draft</i> . October.
Subtotal Potential Future Water Supplies	47,500	–
Total Potential Future Water Supplies	122,420	–

1 **Table 5D.13 City of Folsom**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	36,259	City of Folsom. 2011. <i>2010 Urban Water Management Plan</i> . June.
Water Sales to Others	–	–
Total Demand	36,259	–
Water Supplies for NAA		
CVP Water Supplies	7,000	7,000 acre-foot Water Service Contract (C 6-07-20-W1372) under Public Law 101-514 (Fazio Water).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	28,540	22,000 acre-feet pre-1914 water right diverted from South Fork American River at Folsom Lake and Folsom Canal. 5,000 acre-feet pre-1914 diverted from South Fork American River at Folsom Lake and Folsom Canal. 1,540 acre-feet from American River at Folsom Lake purchased from San Juan Water District for use in the Ashland Service Area.
Groundwater	3,250	Groundwater extraction and treatment produced by Aerojet groundwater cleanup process.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	38,790	–
Possible Future Water Supplies	8,000	8,000 acre-feet purchase water from Natomas Central Mutual Water Company Sacramento Settlement Contract (14-06-200-885A) to be diverted at Freeport on the Sacramento River and conveyance to Folsom South area in accordance with the City of Folsom-Sacramento County Water Agency Memorandum of Agreement.
Subtotal Potential Future Water Supplies	8,000	–
Total Potential Future Water Supplies	46,790	–

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Table 5D.14 Placer County Water Agency

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	109,130	46,701 acre-feet domestic and 62,429 acre-feet irrigation per Placer County Water Agency. 2011. <i>2010 Urban Water Management Plan</i> . June 16.
Water Sales to Others	109,871	29,805 acre-foot sale of treated water to Lincoln, Cal-Am Water Company, and others. 79,411 acre-foot sale of untreated water to San Juan Water District, Roseville, and Sacramento Suburban Water District. 571 acre-foot sale of untreated water to Alpine Meadows Water Association, Dutch Flt Water, Heather Glen Community Services District, Meadow Vista County Water District, and Weimar Water Company.
Total Demand	219,001	–
Water Supplies for NAA		
CVP Water Supplies	35,000	35,000 acre-foot CVP Water Service Contract (14-06-200-5082A) diverted from the American River upstream of and from Folsom Lake.
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	248,800	125,400 af purchase from Pacific Gas & Electric Company under two pre-1914 water rights on the Yuba and Bear rivers. 120,000 acre-foot water right on the American River for the Middle Fork Project diverted from the American River upstream of and from Folsom Lake. Used by San Juan Water District, Sacramento Suburban Water District, Rio Linda/Elverta Community Water District, and Roseville. 12,000 acre-foot purchase from South Sutter Water District (SSWD) is only available when SSWD purchases surplus water from Nevada Irrigation District and not considered part of long-term supplies. Assumed average of 3,400 acre-feet/year from four pre-1914 appropriative water rights on Canyon Creek, tributary to Auburn Ravine, South Fork Dry Creek tributary to Coon Creek, and North Fork Dry Creek tributary to Coon Creek.
Groundwater	707	Limited groundwater available in Martis Valley Basin.

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Recycled Wastewater	6,987	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	291,494	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	291,494	–

1 **Table 5D.15 City of Roseville**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	49,334	City of Roseville. 2011. <i>2010 Urban Water Management Plan</i> . August.
Water Sales to Others	–	–
Total Demand	49,334	–
Water Supplies for NAA		
CVP Water Supplies	32,000	CVP Water Service Contract (14-06-200-3474A).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	–	–
Recycled Wastewater	3,397	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	34,000	30,000 acre-foot purchase from Placer County Water Agency. 4,000 acre-foot purchase from San Juan Water District.
Conservation	–	–
Total Water Supplies for NAA	69,397	–
Possible Future Water Supplies	–	Under Water Forum Agreement, can transfer up to 20,000 acre-feet from Placer County Water Agency. Also may be able to purchase up to 7,000 acre-feet from other CVP water users. Up to 23,200 acre-feet from new wells.
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	69,397	Future water supplies used when existing water supplies not fully available.

1 **Table 5D.16 Sacramento County Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	68,976	Sacramento County Water Agency. 2011. <i>2010 Zone 41 Urban Water Management Plan</i> . July.
Water Sales to Others	8,560	Sales to Elk Grove Water Service and Cal-Am Water Company.
Total Demand	77,535	–
Water Supplies for NAA		
CVP Water Supplies	40,000	15,000 acre-foot CVP Water Service Contract authorized by Public Law 101-514 (Fazio Water). Assume 12,320 acre-feet for long-time average based on capacity of conveyance. 30,000 acre-foot CVP Water Service Contract assigned from Sacramento Municipal Utility District (14-06-200-5198A) to Sacramento County Water Agency under two assignments.
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	17,500	Up to 71,000 acre-feet intermittent water from American and Sacramento rivers water rights under State Water Resources Control Board Permit 21209. Use 17,500 acre-feet for long-term average.
Groundwater	38,500	31,000 acre-feet from wells and 7,500 acre-feet from groundwater treatment processes.
Recycled Wastewater	4,400	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	14,498	14,498 acre-foot purchase from City of Sacramento in accordance with the Water Forum Agreement.
Conservation	–	–
Total Water Supplies for NAA	114,898	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	114,898	–

1 **Table 5D.17 Sacramento Suburban Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	40,389	Sacramento Suburban Water District. 2011. <i>2010 Urban Water Management Plan</i> . July.
Water Sales to Others	1,800	1,700 acre-feet sold to Cal-Am Water Company and 100 acre-feet to Rio Linda/Elverta Community Water District.
Total Demand	43,189	–
Water Supplies for NAA		
CVP Water Supplies	1,000	NOT CVP WATER SUPPLY. Surplus Section 215 water. Assume 12,000 acre-feet in wet years and long-term average of 1,000 acre-feet.
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	31,241	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	21,300	12,000-29,000 acre-feet purchased from Placer County Water Agency, diverted from Folsom Lake, and treated by San Juan Water District in wet years. 9,300 acre-feet purchased from City of Sacramento.
Conservation	–	–
Total Water Supplies for NAA	53,541	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	53,541	–

1 **Table 5D.18 San Juan Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	55,657	San Juan Water District. 2011. <i>2010 Urban Water Management Plan</i> . June 22. Includes 38,591 acre-feet purchased for conjunctive use which is not required each year.
Water Sales to Others	44,199	18,765 acre-feet to Citrus Heights Water District. 14,894 acre-feet to Fair Oaks Water District. 5,000 acre-feet to Orange Vale Water Company. 1,540 acre-feet to Folsom. 4,000 acre-feet to Roseville.
Total Demand	99,856	61,265 acre-feet without conjunctive use component.
Water Supplies for NAA		
CVP Water Supplies	24,200	11,200 acre-foot CVP Water Service Contract (06-07-20-W1373). 13,000 acre-foot CVP Water Service Contracts diverted from Folsom Lake as authorized under Public Law 101-514 (Fazio Water) (06-07-20-W1373).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	33,000	33,000 acre-feet pre-1914 water rights.
Groundwater	–	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	25,000	25,000 acre-foot purchase from Placer County Water Agency.
Conservation	–	–
Total Water Supplies for NAA	82,200	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	82,200	–

1 **Table 5D.19 Golden State Water Company – Rancho Cordova**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	16,932	Golden State Water Company. 2011. <i>Final Report, 2010 Urban Water Management Plan, Cordova.</i> July.
Water Sales to Others	–	–
Total Demand	16,932	–
Water Supplies for NAA		
CVP Water Supplies	–	Assumes no renewal of transfer of water from SMUD.
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	10,000	Up to 10,000 acre-feet pre-1914 water right from American River conveyed through the Folsom South Canal. However, only 5,000 acre-feet retained for Golden State Water Company and leases 5,000 acre-feet to City of Folsom. Up to 5,000 acre-feet replacement water from American River conveyed through the Folsom South Canal provided under a settlement with Gencorp/Aerojet Corporation, plus up to 10,200 acre-feet if necessary.
Groundwater	14,850	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	24,850	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	24,850	–

1 **Table 5D.20 Carmichael Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	9,571	Carmichael Water District. 2011. <i>2010 Urban Water Management Plan</i> . June 20.
Water Sales to Others	–	–
Total Demand	9,571	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	32,627	Long-term average of 32,627 acre-feet of water rights on the American River under State Water Resources Control Board permits 1387 (10,859 acre-feet), 8731 (3,669 acre-feet), and 7356 (18,099 acre-feet).
Groundwater	8,156	6,646 acre-feet from local wells and 1,510 acre-feet from groundwater treatment processes.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	40,783	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	40,783	–

1 **Table 5D.21 City of Sacramento**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	160,100	City of Sacramento. 2011. <i>2010 Urban Water Management Plan</i> . October.
Water Sales to Others	60,062	5,293 acre-feet sold to Sacramento International Airport. 16,593 acre-feet sold to Sacramento Suburban Water District. 11,553 acre-feet sold to Cal-Am Water Company. 22,994 acre-feet sold to Sacramento County Water Agency. 3,629 acre-feet sold to Fruitridge Vista Water Company.
Total Demand	220,162	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	238,684	Up to 81,800 acre-feet of water rights from Sacramento River under State Water Resources Control Board (SWRCB) Permit 992. Up to 245,000 acre-feet of water rights from American River and tributaries of the American River under SWRCB permits 11358, 11359, 11360, 11361.
Groundwater	22,300	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	260,984	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	260,984	–

1 **Table 5D.22 Solano County Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	82,750	238,050 acre-feet Ag (Solano Irrigation District and Maine Prairie Water District) and M&I demands only include demands met by SWP entitlement and Reclamation Solano Project. Does not include demands met by local surface water and groundwater supplies. Solano County Water Agency. 2011. <i>2010 Solano County Water Agency Urban Water Management Plan, Final Draft.</i>
Water Sales to Others	–	–
Total Demand	82,750	238,050 Total Demand
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	30,564	47,756 acre-foot SWP Entitlement.
Other Imported Water Supplies	205,276	207,350 acre-feet with Reclamation Solano Project.
Local Surface Water Supplies	–	–
Groundwater	–	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	235,840	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	235,840	–

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Table 5D.23 Napa County Flood Control and Water Conservation District

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	21,572	5,712 acre-feet for American Canyon per City of American Canyon. 2011. <i>Final Urban Water Management Plan, 2010, Final</i> . September. 1,469 acre-feet for Calistoga per Napa County. 2007. <i>Draft Environmental Impact Report for Napa County General Plan</i> . February. 14,391 acre-feet for Napa per City of Napa. 2011. <i>Urban Water Management Plan, 2010 Update</i> . June 21.
Water Sales to Others	-	-
Total Demand	21,572	-
Water Supplies for NAA		
CVP Water Supplies	-	-
SWP Water Supplies	26,028	3,120 acre-feet for American Canyon per City of American Canyon. 2011. <i>Final Urban Water Management Plan, 2010, Final</i> . September. 1,008 acre-feet for Calistoga treated by City of Napa. Total 1,925 acre-foot SWP entitlement in 2010 per Napa County. 2007. <i>Draft Environmental Impact Report for Napa County General Plan</i> . February. Total amount available is limited 1,008 acre-feet due to conveyance limitations. 21,900 acre-feet for Napa per City of Napa. 2011. <i>Urban Water Management Plan, 2010 Update</i> . June 21. Assume 19,900 acre-feet due to conveyance limitations.
Other Imported Water Supplies	-	-
Local Surface Water Supplies	32,092	392 acre-feet for Calistoga from Kimball Reservoir per Napa County. 2007. <i>Draft Environmental Impact Report for Napa County General Plan</i> . February. 31,700 acre-feet for Napa from Lake Hennessey and Milliken Reservoir per City of Napa. 2011. <i>Urban Water Management Plan, 2010 Update</i> . June 21.
Groundwater	-	-

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Recycled Wastewater	5,605	1,065 acre-feet for American Canyon per City of American Canyon. 2011. <i>Final Urban Water Management Plan, 2010, Final</i> . September. 4,540 acre-feet for Napa per City of Napa. 2011. <i>Urban Water Management Plan, 2010 Update</i> . June 21.
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	1,527	1,027 acre-foot purchase by American Canyon from City of Vallejo, which diverts water from the Delta. Can be expanded to 1,527 acre-feet when SWP water reliability is reduced per City of American Canyon. 2011. <i>Final Urban Water Management Plan, 2010, Final</i> . September.
Conservation	–	–
Total Water Supplies for NAA	65,252	–
Possible Future Water Supplies	–	American Canyon can purchase water from Napa during emergencies per City of American Canyon. 2011. <i>Final Urban Water Management Plan, 2010, Final</i> . September.
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	65,252	–

1 **Table 5D.24 Stockton East Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	64,960	64,960 acre-feet of demand met by Stockton East Water District within City of Stockton, California Water Service Company – Stockton District, and San Joaquin County per Stockton East Water District. 2011. <i>2010 Stockton East Water District Urban Water Management Plan Update</i> . June.
Water Sales to Others	–	–
Total Demand	64,960	–
Water Supplies for NAA		
CVP Water Supplies	24,000	24,000 acre-foot CVP water service contract on Stanislaus River from New Melones Reservoir.
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	20,000	20,000 acre-foot water rights on Calaveras River diverted from New Hogan Reservoir.
Groundwater	43,680	From groundwater bank.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	30,000	Transfer from Oakdale Irrigation District and South San Joaquin Irrigation District.
Conservation	–	–
Total Water Supplies for NAA	117,680	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	117,680	–

1 **Table 5D.25 City of Tracy**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	31,000	City of Tracy. 2011. <i>2010 Urban Water Management Plan</i> . May.
Water Sales to Others	–	–
Total Demand	31,000	–
Water Supplies for NAA		
CVP Water Supplies	31,000	10,000 acre-foot CVP Water Service Contract (14-06-200-7858A), 5,000 acre-feet assigned CVP Water Service Contract from Banta-Carbona Irrigation District (14-06-200-4305A), and 5,000 acre-feet from assigned CVP Water Service Contract from West Side Irrigation District (7-07-20-W-0045). 11,000 acre-foot CVP Water Service Contract assigned from Byron-Bethany Irrigation District from acquisition from Plainview Water District (14-06-200-785).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	16,000	13,000 acre-feet from pre-1914 water rights on the Stanislaus River from South County Water Supply Project. 3,000 acre-feet pre-1914 water rights from Byron-Bethany Irrigation District for annexations in City of Tracy.
Groundwater	2,500	Approximately up to 2,500 acre-feet/year. Up to 3,500 acre-feet banked in Semitropic Water Storage District Groundwater Bank, and 3,000 acre-feet in local groundwater.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	49,500	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Total Potential Future Water Supplies	49,500	–

1 **Table 5D.26 City of Avenal**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	3,500	Includes demands for Avenal State Prison. Bureau of Reclamation. 2014. <i>Central Valley Project Municipal and Industrial Water Shortage Policy, Draft Environmental Impact Statement</i> . November.
Water Sales to Others	–	–
Total Demand	3,500	–
Water Supplies for NAA		
CVP Water Supplies	3,500	3,500 acre-foot CVP Water Service Contract (14-06-200-4619A).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	–	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	3,500	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	3,500	–

1 **Table 5D.27 City of Coalinga**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	10,000	Includes demands for Coalinga State Hospital. Bureau of Reclamation. 2014. <i>Central Valley Project Municipal and Industrial Water Shortage Policy, Draft Environmental Impact Statement</i> . November.
Water Sales to Others	–	–
Total Demand	10,000	–
Water Supplies for NAA		
CVP Water Supplies	10,000	10,000 acre-foot CVP Water Service Contract (14-06-200-4173A).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	–	CVP Water Service Contract signed in 1968 required Coalinga to abandon groundwater wells.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	10,000	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	10,000	–

1 **Table 5D.28 City of Huron**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	3,000	Bureau of Reclamation. 2014. <i>Central Valley Project Municipal and Industrial Water Shortage Policy, Draft Environmental Impact Statement</i> . November.
Water Sales to Others	–	–
Total Demand	3,000	–
Water Supplies for NAA		
CVP Water Supplies	3,000	3,000 acre-foot CVP Water Service Contract (14-06-200-7081A).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	–	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	3,000	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	3,000	–

1 **Table 5D.29 City of Fresno**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	201,000	City of Fresno. 2012. <i>2010 Urban Water Management Plan</i> . November. Does not include 69,400 acre-feet for groundwater recharge.
Water Sales to Others	100	–
Total Demand	201,100	–
Water Supplies for NAA		
CVP Water Supplies	58,200	60,000 acre-foot CVP Water Service Contract from Friant-Kern Canal.
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	134,600	Basic allocation of 120,800 acre-feet from Fresno Irrigation District (FID) water rights on Kings River. City of Fresno receives 13,800 acre-feet from FID water rights on Kings River in exchange for recycled wastewater that recharges the groundwater in a portion of FID service area.
Groundwater	69,200	–
Recycled Wastewater	25,000	Recycled Wastewater. Could be combined with future transfers in exchange with surface water.
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	287,000	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	287,000	–

1 **Table 5D.30 City of Lindsay**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	2,689	City of Lindsay. 2013. <i>Water Feasibility Study, Draft Final Report</i> . October.
Water Sales to Others	–	–
Total Demand	2,689	–
Water Supplies for NAA		
CVP Water Supplies	1,450	Assumes 2,500 acre-foot CVP Water Service Contract (5-07-20-W0428) only available in summer months due to availability of Friant Kern Canal per City of Lindsay. 2013. <i>Water Feasibility Study, Draft Final Report</i> . October.
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	1,210	1,210 acre-feet from Well #14 per City of Lindsay. 2013. <i>Water Feasibility Study, Draft Final Report</i> . October. Well #15 can produce 1,937 acre-feet; however, not included in firm capacity.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	2,660	–
Possible Future Water Supplies	3,630	3 new wells and treatment plant and distribution facilities improvements per City of Lindsay. 2013. <i>Water Feasibility Study, Draft Final Report</i> . October.
Subtotal Potential Future Water Supplies	3,630	–
Total Potential Future Water Supplies	6,290	–

1 **Table 5D.31 Kern County Water Agency Improvement District No. 4 and North of**
 2 **the River Municipal Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	62,750	Kern County Water Agency Improvement District No. 4 and North of the River Municipal Water District. 2011. <i>2010 Urban Water Management Plan, Final.</i> June.
Water Sales to Others	–	–
Total Demand	62,750	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	82,946	Assumes 82,946 acre-feet of the 82,946-acre-foot SWP Water Service Entitlement.
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–
Groundwater	68,126	Including Kern Water Bank, Pioneer Project Bank, and Allen Road Complex Well Field.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	151,072	–
Possible Future Water Supplies	–	Including up to 96,000 acre-feet of transfers with Kern Delta Water District, Kern-Tulare Water District, Rosedale-Rio Bravo Water Storage District, and North Kern Water Storage District.
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	151,072	–

1 **5D.3 San Francisco Bay Area Region**

2 This section includes summaries of water demand and water supply projections
 3 for M&I users of CVP and SWP water supplies in the San Francisco Bay Area
 4 Region (see Tables 5D.32 through 5D.37). The M&I water users are generally
 5 organized geographically in this section from north to south.

6 **Table 5D.32 Contra Costa Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	225,160	Contra Costa Water District. 2011. <i>Urban Water Management Plan</i> . June.
Water Sales to Others	–	–
Total Demand	225,160	–
Water Supplies for NAA		
CVP Water Supplies	195,000	195,000 acre-foot CVP Water Service Contract (175r-3401A-LTR1).
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	19,500	3,100 acre-foot water right from Mallard Slough. 6,400 acre-foot water right from San Joaquin River by City of Antioch. 10,000 acre-foot water right from San Joaquin River by industrial water users in Contra Costa Water District (CCWD) service area.
Groundwater	3,000	–
Recycled Wastewater	14,100	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	8,200	Purchase surplus water from East Contra Costa Irrigation District.
Conservation	–	–
Total Water Supplies for NAA	239,800	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	239,800	–

1 **Table 5D.33 East Bay Municipal Utility District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	256,500	East Bay Municipal Utility District. 2011. <i>Urban Water Management Plan 2010 Document</i> . June.
Water Sales to Others	–	–
Total Demand	256,500	–
Water Supplies for NAA		
	Supplemental supply	Up to 133,000 acre-feet in a dry year, with a maximum of 165,000 acre-feet over three dry years, CVP Water Service Contract (14-08-200-5183A-LTR1) from the American River.
CVP Water Supplies	–	–
SWP Water Supplies	–	–
Other Imported Water Supplies	241,746	Up to 364,037 acre-feet of water rights on the Mokelumne River per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April. Assume 241,746 acre-feet based on information per East Bay Municipal Utility District. 2011. <i>Urban Water Management Plan 2010 Document</i> . June; and East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April.
Local Surface Water Supplies	16,800	Water rights from local watersheds within the East Bay Municipal Utility District (EBMUD) watershed average 16,800 to 28,000 acre-feet per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April.
Groundwater	1,120	Bayside Groundwater Project Phase 1 groundwater recharge facility within EBMUD service area per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April. Assume 241,746 acre-feet based on information per East Bay Municipal Utility District. 2011. <i>Urban Water Management Plan 2010 Document</i> . June; and East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April.

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Recycled Wastewater	11,200	11,200 acre-feet additional reclamation per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April. This value is consistent with 20,970 acre-feet in East Bay Municipal Utility District. 2011. <i>Urban Water Management Plan 2010 Document</i> . June.
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	35,580	35,850 acre-feet from permanent conservation programs per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April. This is greater than projections of 25,227 acre-feet per East Bay Municipal Utility District. 2011. <i>Urban Water Management Plan 2010 Document</i> . June. Up to 38,500 acre-feet could be saved from 15 percent rationing during droughts or emergencies as compared to UWMP demand projections for 2030. However, this value not included in long-term average values.
Total Water Supplies for NAA	306,466	Does not include CVP water supply for dry years or up to 15 percent rationing in dry years.
Possible Future Water Supplies		
Bayside Groundwater Project Phase 2	10,080	Bayside Groundwater Project Phase 2 per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April. Requires further study and environmental analyses.
Groundwater Banking outside of EBMUD service area	–	Includes 4,704 acre-feet of groundwater banking in Sacramento Valley and/or 19,500 acre-feet in San Joaquin Valley; not anticipated until 2040 per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April.
Transfers	14,560	Transfers from Northern California water users per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April.

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Regional Desalination Facility	–	Up to 22,400 acre-feet from regional desalination facility; however, not anticipated until 2040 per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April.
Enlarge Lower Bear Reservoir	–	Up to 4,500 acre-feet; however, not in plan for 2030 per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April. Enlargement of Pardee Reservoir is not included in the recommendations of the East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April.
Expand Los Vaqueros Reservoir	6,700	Up to 6,700 acre-feet per East Bay Municipal Utility District. 2012. <i>Water Supply Management Program 2040 Plan</i> . April.
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	306,446	Does not include CVP water supply for dry years or up to 15 percent rationing in dry years.

1 **Table 5D.34 Zone 7 Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	66,300	Assume Low Water Demand to serve a portion of Livermore, Pleasanton, Dublin-San Ramon Services District, and Cal-Water Water Company, plus local retail treated and untreated water. Does not include 9,200 acre-feet for groundwater recharge. Zone 7 Water Agency. 2010. <i>2010 Urban Water Management Plan</i> . December 15.
Water Sales to Others	–	–
Total Demand	66,300	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	51,545	51,400 acre-feet from the 80,619 acre-foot SWP Water Entitlement. 145 acre-feet of SWP water from Yuba Accord. Portions are stored in Semitropic Water Storage District and Cawelo Water District groundwater banks, Lake Del Valle, and local groundwater.
Other Imported Water Supplies	–	–
Local Surface Water Supplies	7,100	Arroyo del Valle water rights.
Groundwater	9,200	Recharged by Zone 7 Water Agency; wells owned and operated by local agencies.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	4,500	2,000 to 5,000 acre-feet from Byron-Bethany Irrigation District. Assume 4,500 acre-feet for long-term average.
Conservation	–	–
Total Water Supplies for NAA	72,345	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	72,345	–
Total Potential Future Water Supplies	–	–

1 **Table 5D.35 Alameda County Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	71,800	Alameda County Water District. 2011. <i>Urban Water Management Plan, 2010-2015</i> . June 9.
Water Sales to Others	–	–
Total Demand	71,800	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	27,500	27,500 acre-feet of the 42,000-acre-foot SWP Water Entitlement, including SWP water stored in Semitropic Water Storage District groundwater bank. Could receive 13,500 to 33,500 acre-feet from groundwater bank.
Other Imported Water Supplies	15,400	15,400 acre-feet from the 15,400 acre-foot contract with San Francisco Public Utility Commission.
Local Surface Water Supplies	5,800	Up to 18,500 acre-feet from Del Valle Reservoir.
Groundwater	24,500	Up to 44,400 acre-feet for groundwater recharge and storage.
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	5,100	Newark Desalination Facility.
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	78,300	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	78,300	–

1 **Table 5D.36 Santa Clara Valley Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	409,370	Santa Clara Valley Water District. 2011. <i>Urban Water Management Plan 2010</i> . June.
Water Sales to Others	–	–
Total Demand	409,370	–
Water Supplies for NAA		
CVP Water Supplies	108,120	152,500 acre-foot CVP Water Service Contract (7-07-20-W0023). Assume 108,120 acre-feet on long-term average per Santa Clara Valley Water District. 2011. <i>Urban Water Management Plan 2010</i> . April.
SWP Water Supplies	64,000	100,000 acre-foot SWP Water Entitlement. Assume 64,000 acre-feet on long-term average per Santa Clara Valley Water District. 2011. <i>Urban Water Management Plan 2010</i> . April.
Other Imported Water Supplies	61,000	61,000 acre-feet per Santa Clara Valley Water District. 2012. <i>Water Supply and Infrastructure Master Plan</i> . October. Up to 63,850 acre-feet from San Francisco Public Utility Commission per Santa Clara Valley Water District. 2011. <i>Urban Water Management Plan 2010</i> . April.
Local Surface Water Supplies	95,000	102,000 acre-feet per Santa Clara Valley Water District. 2012. <i>Water Supply and Infrastructure Master Plan</i> . October. Includes about 11,000 -12,000 acre-feet non-district surface water supplies. 93,500 acre-feet based upon reported local supplies minus groundwater component per Santa Clara Valley Water District. 2011. <i>Urban Water Management Plan 2010</i> . April.
Groundwater	61,000	61,000 acre-feet per Santa Clara Valley Water District. 2012. <i>Water Supply and Infrastructure Master Plan</i> . October. 60,300 acre-feet of effective natural groundwater recharge in Santa Clara Plain, Coyote Valley, and Llagas Subbasin basins per Santa Clara Valley Water District. 2011. <i>Urban Water Management Plan 2010</i> . April.
Recycled Wastewater	29,000	Per Santa Clara Valley Water District. 2012. <i>Water Supply and Infrastructure Master Plan</i> . October.

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	4,000	<p>Transfer from Patterson Irrigation District initiated in 2009 extended through 2024. This water is from Replacement Water, CVP Water Service Contract Water, and pre-1914 San Joaquin River water rights per Bureau of Reclamation. 2014. <i>Draft Findings of No Significant Impact, Patterson Irrigation District 10-Year Transfer and/or Warren Act Contract for up to 36,000 acre-feet of Available Surface Water Supply to Santa Clara Valley Water District</i>. May. Assume that this transfer is continued through 2030.</p> <p>Purchase of up to 20,000 acre-feet over a 20-year period from Pajaro Valley Water Management Agency during dry years; not included in long-term supply calculations. Assume 108,120 acre-feet on long-term average per Santa Clara Valley Water District. 2011. <i>Urban Water Management Plan 2010</i>. April.</p>
Conservation	–	–
Total Water Supplies for NAA	422,120	–
Possible Future Water Supplies		
Brackish Groundwater Treatment in Pajaro Watershed	–	Per Santa Clara Valley Water District. 2011. <i>Urban Water Management Plan 2010</i> . April. Not included in Santa Clara Valley Water District. 2014. <i>FY 2014-15 Protection and Augmentation of Water Supplies</i> . February.
Regional Desalination Facility	–	Per Santa Clara Valley Water District. 2011. <i>Urban Water Management Plan 2010</i> . April. Not recommended at this time 61,000 acre-feet per Santa Clara Valley Water District. 2012. <i>Water Supply and Infrastructure Master Plan</i> . October; or per Santa Clara Valley Water District. 2014. <i>FY 2014-15 Protection and Augmentation of Water Supplies</i> . February.
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	422,120	–

1 **Table 5D.37 San Benito County Water District, Zone 6**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	11,583	Per San Benito County Water District et al. (San Benito County Water District, Sunnyslope County Water District, and City of Hollister). 2011. <i>Draft Hollister Urban Area 2010 Urban Water Management Plan</i> . June 14. Does not include agricultural demands or groundwater use in San Juan Bautista, which does not directly use CVP water.
Water Sales to Others	100	–
Total Demand	11,683	–
Water Supplies for NAA		
CVP Water Supplies	8,250	43,800 acre-foot CVP Water Service Contract (8-07-20-W0130), including 8,250 acre-feet for Municipal & Industrial uses within Hollister and Sunnyslope County Water District. This use is limited by the Lessalt Water Treatment Plant capacity per San Benito County Water District et al. (San Benito County Water District, Sunnyslope County Water District, and City of Hollister). 2011. <i>Draft Hollister Urban Area 2010 Urban Water Management Plan</i> . June 14. Assumes expansion of water treatment plant capacity per Urban Water Management Plan and San Benito County Water District. 2014. <i>West Hills Water Treatment Plant Project, Draft Environmental Impact Report</i> . January. Remaining portion of the water supply, up to 35,550 acre-feet, is delivered to agricultural users and for groundwater recharge, which benefits Hollister, Sunnyslope, and San Juan Bautista communities.
SWP Water Supplies	–	–
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	–

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Groundwater	4,004	Per San Benito County Water District et al. (San Benito County Water District, Sunnyslope County Water District, and City of Hollister). 2011. <i>Draft Hollister Urban Area 2010 Urban Water Management Plan</i> . June 14. Storage has been purchased in Semitropic Water Storage District groundwater banking per San Benito County Water District. 2014. <i>West Hills Water Treatment Plant Project, Draft Environmental Impact Report</i> . January.
Recycled Wastewater	1,170	Per San Benito County Water District et al. (San Benito County Water District, Sunnyslope County Water District, and City of Hollister). 2011. <i>Draft Hollister Urban Area 2010 Urban Water Management Plan</i> . June 14.
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	13,424	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	13,424	–

1 **5D.4 Central Coast Region**

2 This section includes summaries of water demand and water supply projections
 3 for M&I users of SWP water supplies in the Central Coast Region (see
 4 Tables 5D.38 and 5D.39). The M&I water users are organized geographically in
 5 this section from north to south. The following water users contract with Central
 6 Coast Water Agency for SWP water supplies.

7 **Table 5D.38 San Luis Obispo County Flood Control and Water Conservation**
 8 **District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	8,250	1,505 acre-feet for City of Morro Bay per City of Morro Bay. 2011. <i>Final Report, 2010 Urban Water Management Plan</i> . June. 2,364 acre-feet for City of Pismo Beach per City of Pismo Beach. 2011. <i>2010 Urban Water Management Plan</i> . September. 1,135 acre-feet for California Men's Colony; 94 acre-feet for County Operations Center; 125 acre-feet for Cuesta College; 1,419 acre-feet for Oceano Community Services District; 393 acre-feet for San Miguelito Mutual Water Company; 170 acre-feet for Avila Beach Community Services District; 32 acre-feet for Avila Valley Mutual Water Company; 7 acre-feet for San Luis Coastal Unified School District through San Luis Obispo County Service Area No. 12; and 1,100 acre-feet for Shandon (San Luis Obispo County Service Area No. 16) per San Luis Obispo County Flood Control and Water Conservation District. 2012. <i>San Luis Obispo County Master Water Report</i> . May.
Water Sales to Others	-100	100 acre-feet from Oceano Community Services District to the City of Arroyo Grande.
Total Demand	8,150	-
Water Supplies for NAA		
CVP Water Supplies	-	-

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
SWP Water Supplies	5,007	<p>1,313 acre-feet for City of Morro Bay of Central Coast Water Authority SWP Water Entitlement per City of Morro Bay. 2011. <i>Final Report, 2010 Urban Water Management Plan</i>. June.</p> <p>1,740 acre-feet for City of Pismo Beach per City of Pismo Beach. 2011. <i>2010 Urban Water Management Plan</i>. September.</p> <p>735 acre-feet for California Men's Colony; 150 acre-feet for County Operations Center; 140 acre-feet Cuesta College; 495 acre-feet for Oceano Community Services District; 275 acre-feet for San Miguelito Mutual Water Company; 66 acre-feet Avila Beach Community Services District; 20 acre-feet for Avila Valley Mutual Water Company; 7 acre-feet for San Luis Coastal Unified School District through San Luis Obispo County Service Area No. 12; and 66 acre-feet for Shandon (San Luis Obispo County Service Area No. 16) per San Luis Obispo County Flood Control and Water Conservation District. 2012. <i>San Luis Obispo County Master Water Report</i>. May.</p>
Other Imported Water Supplies	–	–
Local Surface Water Supplies	2,015	<p>896 acre-feet from Lopez Lake Reservoir for City of Pismo Beach per City of Pismo Beach. 2011. <i>2010 Urban Water Management Plan</i>. September.</p> <p>445 acre-feet from Whale Rock Reservoir and Chorro Reservoir for California Men's Colony; 28 acre-feet from Whale Rock Reservoir for County Operations Center; 303 acre-feet from Lopez Lake Reservoir for Oceano Community Services District; 263 acre-feet from San Miguelito Mutual Water Company; 68 acre-feet from Lopez Lake Reservoir for Avila Beach Community Services District; and 12 acre-feet from Lopez Lake Reservoir for Avila Valley Mutual Water Company per San Luis Obispo County Flood Control and Water Conservation District. 2012. <i>San Luis Obispo County Master Water Report</i>. May.</p>

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Groundwater	3,588	<p>1,723 acre-feet for City of Morro Bay per City of Morro Bay. 2011. <i>Final Report, 2010 Urban Water Management Plan</i>. June.</p> <p>700 acre-feet for City of Pismo Beach per City of Pismo Beach. 2011. <i>2010 Urban Water Management Plan</i>. September.</p> <p>900 acre-feet for Oceano Community Services District; 118 acre-feet for San Miguelito Mutual Water Company; and 147 acre-feet for Shandon (San Luis Obispo County Service Area No. 16) per San Luis Obispo County Flood Control and Water Conservation District. 2012. <i>San Luis Obispo County Master Water Report</i>. May.</p>
Recycled Wastewater	2,040	<p>1,840 acre-feet for City of Pismo Beach per City of Pismo Beach. 2011. <i>2010 Urban Water Management Plan</i>. September.</p> <p>200 acre-feet for California Men's Colony per San Luis Obispo Regional Water Management Group. 2014. <i>San Luis Obispo Integrated Regional Water Management Plan</i>. July.</p>
Recycled Stormwater	–	–
Desalination	645	645 acre-feet for City of Morro Bay per City of Morro Bay. 2011. <i>Final Report, 2010 Urban Water Management Plan</i> . June.
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	13,295	–
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	–	–
Total Potential Future Water Supplies	13,295	–

1 **Table 5D.39 Santa Barbara County Flood Control and Water Conservation District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	72,515	<p>1,635 acre-feet for City of Guadalupe per City of Guadalupe. 2014. <i>Water Master Plan Update</i>. May 13.</p> <p>12,355 acre-feet for City of Santa Barbara per City of Santa Barbara. 2011. <i>Urban Water Management Plan, 2010 Update</i>. June.</p> <p>19,564 acre-feet for City of Santa Maria per City of Santa Maria. 2011. <i>2010 Urban Water Management Plan</i>. July.</p> <p>4,325 acre-feet for Carpinteria Valley Water District per Carpinteria Valley Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i>. June.</p> <p>14,113 acre-feet for Goleta Water District per Goleta Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i>. November.</p> <p>8,123 acre-feet for Golden State Water Company per Golden State Water Company. 2011. <i>Final Report, 2010 Urban Water Management Plan, Orcutt</i>. August.</p> <p>1,434 acre-feet for City of Buellton; 1,868 acre-feet for La Cumbre Mutual Water Company; 5,633 acre-feet for Montecito Water District; 1,929 acre-feet for Santa Ynez River Water Conservation District, Improvement District #1; and 1,371 acre-feet for Vandenberg Air Force Base per Santa Barbara County. 2014. <i>Integrated Regional Water Management Plan 2013</i>.</p> <p>33 acre-feet for Raytheon Systems Company and 132 acre-feet for Morehart Land Company (Naples Water Company) for SWP water demand only, per Central Coast Water Authority. 2011. <i>2010 Urban Water Management Plan</i>. June.</p>
Water Sales to Others	3,420	3,420 acre-feet for Golden State Water Company, Orcutt community, and Nipomo Community Services District from City of Santa Maria per City of Santa Maria. 2011. <i>2010 Urban Water Management Plan</i> . July.
Total Demand	75,935	–

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	39,440	<p>367 acre-feet of the 550-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for City of Guadalupe per City of Guadalupe. 2014. <i>Water Master Plan Update</i>. May 13.</p> <p>1,802 acre-feet of the 3,000-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for City of Santa Barbara per City of Santa Barbara. 2011. <i>Urban Water Management Plan, 2010 Update</i>. June.</p> <p>22,936 acre-feet of the 16,200-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for City of Santa Maria per City of Santa Maria. 2011. <i>2010 Urban Water Management Plan</i>. July.</p> <p>1,200 acre-feet of the 2,000-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for Carpinteria Valley Water District per Carpinteria Valley Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i>. June.</p> <p>3,800 acre-feet of the 4,500-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for Goleta Water District per Goleta Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i>. November.</p> <p>1,109 acre-feet of the 500-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for Golden State Water Company per Golden State Water Company. 2011. <i>Final Report, 2010 Urban Water Management Plan, Orcutt</i>. August.</p>

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
SWP Water Supplies (continued)	–	<p>386 acre-feet of the 578-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for City of Buellton; 667 acre-feet of the 1,000-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for La Cumbre Mutual Water Company; 2,002 acre-feet of the 3,000-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for Montecito Water District; 1,335 acre-feet of the 2,000-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for Santa Ynez River Water Conservation District, Improvement District #1; and 3,670 acre-feet of the 5,500-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for Vandenberg Air Force Base per Santa Barbara County. 2014. <i>Integrated Regional Water Management Plan 2013</i>.</p> <p>33 acre-feet of the 50-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for Raytheon Systems Company; and 133 acre-feet of the 200-acre-foot allocation of the Central Coast Water Authority SWP Water Entitlement for Morehart Land Company (Naples Water Company) per Central Coast Water Authority. 2011. <i>2010 Urban Water Management Plan</i>. June.</p>
Water Supplies from Reclamation Cachuma Project	23,534	<p>6,566 acre-feet for City of Santa Barbara per City of Santa Barbara. 2011. <i>Urban Water Management Plan, 2010 Update</i>. June.</p> <p>2,250 acre-feet for Carpinteria Valley Water District per Carpinteria Valley Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i>. June.</p> <p>9,322 acre-feet for Goleta Water District per Goleta Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i>. November.</p> <p>2,777 acre-feet for Montecito Water District; and 2,619 acre-feet for Santa Ynez River Water Conservation District, Improvement District #1 per Santa Barbara County. 2014. <i>Integrated Regional Water Management Plan 2013</i>.</p>

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Local Surface Water Supplies	21,742	<p>4,331 acre-feet of water rights on Santa Ynez River and Devils Canyon Creek for City of Santa Barbara per City of Santa Barbara. 2011. <i>Urban Water Management Plan, 2010 Update</i>. June.</p> <p>14,300 acre-feet from Twitchell Reservoir for City of Santa Maria per City of Santa Maria. 2011. <i>2010 Urban Water Management Plan</i>. July.</p> <p>611 acre-feet for City of Buellton; 1,500 acre-feet for Montecito Water District; and 1,000 acre-feet for Santa Ynez River Water Conservation District, Improvement District #1 per Santa Barbara County. 2014. <i>Integrated Regional Water Management Plan 2013</i>.</p>
Groundwater	29,664	<p>1,300 acre-feet with well modifications for City of Guadalupe per City of Guadalupe. 2014. <i>Water Master Plan Update</i>. May 13.</p> <p>1,125 acre-feet for City of Santa Barbara per City of Santa Barbara. 2011. <i>Urban Water Management Plan, 2010 Update</i>. June.</p> <p>12,795 acre-feet for City of Santa Maria per City of Santa Maria. 2011. <i>2010 Urban Water Management Plan</i>. July.</p> <p>2,000 acre-feet for Carpinteria Valley Water District per Carpinteria Valley Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i>. June.</p> <p>2,350 acre-feet for Goleta Water District per Goleta Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i>. November.</p> <p>10,094 acre-feet for Golden State Water Company per Golden State Water Company. 2011. <i>Final Report, 2010 Urban Water Management Plan, Orcutt</i>. August.</p> <p>Not quantified use for City of Buellton; La Cumbre Mutual Water Company; Montecito Water District; Santa Ynez River Water Conservation District, Improvement District #1; and Vandenberg Air Force Base per Santa Barbara County. 2014. <i>Integrated Regional Water Management Plan 2013</i>; and Central Coast Water Authority. 2011. <i>2010 Urban Water Management Plan</i>. June.</p>

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Recycled Wastewater	2,250	1,100 acre-feet for City of Santa Barbara per City of Santa Barbara. 2011. <i>Urban Water Management Plan, 2010 Update</i> . June. 1,150 acre-feet for Goleta Water District per Goleta Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i> . November.
Recycled Stormwater	–	–
Desalination	7,500	7,500 acre-feet Santa Barbara (based on websites accessed in January 2015 for City of Santa Barbara).
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	124,130	–
Possible Future Water Supplies	–	Modifications in groundwater management, desalination, and expansion of reclamation facilities for City of Santa Barbara per City of Santa Barbara. 2011. <i>Urban Water Management Plan, 2010 Update</i> . June. Desalination capacity of 3,125 acre-feet per Santa Barbara County. 2014. <i>Integrated Regional Water Management Plan 2013</i> . Additional wells, use of recycled water, increased use of local water rights per Carpinteria Valley Water District. 2011. <i>Final 2010 Urban Water Management Plan Update</i> . June. Water system improvements and additional groundwater facilities for cities of Buellton, Guadalupe, Santa Barbara, and Santa Maria, and Goleta Water District per Santa Barbara County. 2014. <i>Integrated Regional Water Management Plan 2013</i> .
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	124,130	–

1 **5D.5 Southern California Region**

2 This section includes summaries of water demand and water supply projections
 3 for M&I users of SWP water supplies in the Southern California Region (see
 4 Tables 5D.40 through 5D.50). The M&I water users are generally organized
 5 geographically in this section from north to south.

6 **Table 5D.40 Antelope Valley-East Kern Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	96,558	Antelope Valley-East Kern Water Agency. 2011. <i>2010 Urban Water Management Plan</i> . June.
Water Sales to Others	-	-
Total Demand	96,558	-
Water Supplies for NAA		
CVP Water Supplies	-	-
SWP Water Supplies	87,688	87,688 acre-feet of the 141,400-acre-foot SWP Water Entitlement.
Other Imported Water Supplies	-	-
Local Surface Water Supplies	-	-
Groundwater	20,000	-
Recycled Wastewater	-	Recycled water is used by member agencies. The total is not quantified for the district.
Recycled Stormwater	-	-
Desalination	-	-
Transfers/Exchanges	-	-
Conservation	-	-
Total Water Supplies for NAA	107,688	-
Possible Future Water Supplies		
Subtotal Potential Future Water Supplies	-	-
Total Potential Future Water Supplies	107,688	-

1 **Table 5D.41 Castaic Lake Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	105,313	Castaic Lake Water Agency, Newhall County Water District, and Valencia Water Company. 2011. <i>2010 Urban Water Management Plan, Final</i> . June.
Water Sales to Others	–	–
Total Demand	105,313	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	57,400	57,400 acre-feet of the 95,200-acre-foot SWP Water Entitlement.
Other Imported Water Supplies	17,287	17,287 from Flexible Storage Accounts with Ventura County; contracts with Buena Vista-Rosedale; and Newhall Land.
Local Surface Water Supplies	–	–
Groundwater	60,175	35,225 acre-feet of local groundwater and 24,950 acre-feet from groundwater banks in Kern County.
Recycled Wastewater	325	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	135,187	–
Possible Future Water Supplies		
–	14,375	Additional groundwater use, including groundwater banking.
–	7,775	Additional recycled wastewater.
Subtotal Potential Future Water Supplies	22,150	–
Total Potential Future Water Supplies	157,337	–

1 **Table 5D.42 Coachella Valley Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	212,000	212,000 acre-feet for urban water use. Total water use of 670,800 acre-feet includes water demands for agricultural users and groundwater recharge per Coachella Valley Water District. 2011. <i>2010 Urban Water Management Plan, Final Report.</i> July.
Water Sales to Others	-	-
Total Demand	212,000	-
Water Supplies for NAA		
CVP Water Supplies	-	-
SWP Water Supplies	-	23,100 acre-foot SWP Water Entitlement plus 88,100 acre-feet from transfer of Metropolitan Water District of Southern California (MWDSC) SWP Entitlement and 27,150 acre-feet from transfers of SWP Entitlements from Kern County Water Users.
Other Imported Water Supplies	78,500	78,500 acre-foot Colorado River water supply for municipal and industrial uses. Approximately 428,000 acre-feet of Colorado River water supply for agricultural and groundwater recharge uses including 330,000 acre-foot Colorado R water right and additional 129,000 acre-feet from the Quantification Settlement Agreement (including SWP Water Entitlement that is exchanged with MWDSC).
Local Surface Water Supplies	-	-
Groundwater	133,500	-
Recycled Wastewater	26,840	-
Recycled Stormwater	-	-
Desalination	-	-
Transfers/Exchanges	-	-
Conservation	-	-
Total Water Supplies for NAA	238,840	-
Possible Future Water Supplies	-	Treated groundwater could provide 10,000 acre-feet additional supplies for agricultural supplies; scheduled for 2035. Additional water transfers.

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	238,840	–

1 **Table 5D.43 Crestline-Lake Arrowhead Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	2,250	Crestline-Lake Arrowhead Water Agency. 2011. <i>2010 Urban Water Management Plan</i> . August.
Water Sales to Others	–	–
Total Demand	2,250	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	3,480	5,800 SWP Water Entitlement.
Other Imported Water Supplies	–	–
Local Surface Water Supplies	481	Water right on Houston Creek conveyed through Lake Silverwood.
Groundwater	–	–
Recycled Wastewater	–	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	3,961	–
Possible Future Water Supplies	–	Potential future water transfers, including from SWP water users. Potential recycled water use for limited use due to high elevation within service area.
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	3,961	–

1 **Table 5D.44 Desert Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	69,400	Desert Water Agency. 2011. <i>2010 Urban Water Management Plan</i> . March.
Water Sales to Others	–	–
Total Demand	69,400	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies		38,100 acre-foot SWP Water Entitlement plus 11,900 acre-feet from transfer of MWDSC SWP Entitlement and 5,750 acre-feet from transfers of SWP Entitlements from Kern County Water Users.
Other Imported Water Supplies	27,200	27,200 acre-foot Colorado River water supply for groundwater recharge including SWP water that is exchanged with MWDSC.
Local Surface Water Supplies	5,900	Water rights on Snow Creek, Falls Creek, Chino Creek, and Whitewater River.
Groundwater	7,000	–
Recycled Wastewater	8,400	–
Recycled Stormwater	21,400	21,400 acre-feet in nonconsumptive returns to aquifer.
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	69,900	–
Possible Future Water Supplies	–	Potential future water transfers.
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	69,900	–

1 **Table 5D.45 Mojave Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	192,969	Mojave Water Agency. 2011. <i>Final 2010 Urban Water Management Plan</i> . June.
Water Sales to Others	–	–
Total Demand	192,969	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	54,778	82,800 acre-foot SWP Water Entitlement and 14,000 acre-feet of SWP Water transferred from Dudley Ridge Water District.
Other Imported Water Supplies	–	–
Local Surface Water Supplies	54,045	–
Groundwater	92,789	Includes 10,425 for agricultural depletion and 82,364 from return flows returned to the groundwater and reused.
Recycled Wastewater	6,087	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	207,699	–
Possible Future Water Supplies	–	Potential water transfers, improved groundwater banking programs, and approaches to protect groundwater quality.
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	207,699	–

1 **Table 5D.46 Palmdale Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	55,000	Palmdale Water District. 2011. <i>Urban Water Management Plan</i> . June.
Water Sales to Others	300	Sales to Littlerock Creek Irrigation District.
Total Demand	55,300	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	12,800	21,300 acre-foot SWP Water Entitlement.
Other Imported Water Supplies	–	–
Local Surface Water Supplies	4,000	Water rights on Little Rock and Big Rock creeks.
Groundwater	20,600	12,000 acre-feet of groundwater and 8,600 acre-feet from groundwater banking.
Recycled Wastewater	9,000	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	46,400	–
Possible Future Water Supplies	9,600	Future groundwater banking projects.
Subtotal Potential Future Water Supplies	9,600	–
Total Potential Future Water Supplies	55,000	–

1 **Table 5D.47 San Bernardino Valley Municipal Water District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	305,447	San Bernardino Municipal Water District; East Valley Water District; cities of Loma Linda, Redlands, Colton, and San Bernardino; West Valley Water District; and Yucaipa Valley Water District. 2011. <i>2010 San Bernardino Valley Regional Urban Water Management Plan</i> . June.
Water Sales to Others	-	-
Total Demand	305,447	-
Water Supplies for NAA		
CVP Water Supplies	-	-
SWP Water Supplies	61,560	27,090 acre-foot direct delivery from 102,600-acre-foot SWP Water Entitlement, and 34,470 acre-feet from storage.
Other Imported Water Supplies	-	-
Local Surface Water Supplies	50,150	Water rights in the Santa Ana River watershed.
Groundwater	264,075	-
Recycled Wastewater	-	-
Recycled Stormwater	-	-
Desalination	-	-
Transfers/Exchanges	-	-
Conservation	-	-
Total Water Supplies for NAA	375,785	-
Possible Future Water Supplies	-	Water transfers.
Subtotal Potential Future Water Supplies	-	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	375,785	-

1 **Table 5D.48 San Gorgonio Pass Water Agency**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	66,420	San Gorgonio Pass Water Agency. 2010. <i>2010 Urban Water Management Plan</i> . December.
Water Sales to Others	–	–
Total Demand	66,420	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	8,000	17,300 acre-foot SWP Water Entitlement primarily used for groundwater recharge.
Other Imported Water Supplies	–	–
Local Surface Water Supplies	3,000	Noble and Little San Gorgonio creeks used by Beaumont Cherry Valley Water District.
Groundwater	23,045	–
Recycled Wastewater	17,907	–
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	51,952	–
Possible Future Water Supplies	11,717	Expanded groundwater facilities.
–	–	Future water transfers.
Subtotal Potential Future Water Supplies	11,717	–
Total Potential Future Water Supplies	63,669	–

1 **Table 5D.49 Ventura County Watershed Protection District**

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	10,365	The only portion of Ventura County Watershed Protection District that uses SWP Water not from Metropolitan Water District of Southern California is the Oxnard-Hueneme System of United Water Conservation District per United Water Conservation District. 2011. <i>Public Review Final, 2010 Urban Water Management Plan Update.</i> June.
Water Sales to Others	–	–
Total Demand	10,365	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	–	5,000 acre-feet for United Water Conservation District of the Ventura County Watershed Conservation District 20,000 acre-foot SWP Water Entitlement. The water is used for groundwater recharge. The 5,000 acre-feet for Casitas Municipal Water District and 10,000 acre-feet for the City of San Buenaventura (Ventura) cannot be conveyed to those areas and are transferred to others.
Other Imported Water Supplies	–	–
Local Surface Water Supplies	–	Surface water from Lake Piru is used for groundwater recharge.
Groundwater	10,365	–
Recycled Wastewater	–	49,000 acre-feet of recycled water used for groundwater recharge (32,000 acre-feet), wildlife habitat (8,000 acre-feet), and agriculture (9,000 acre-feet).
Recycled Stormwater	–	–
Desalination	–	–
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	10,365	–
Possible Future Water Supplies	–	Additional groundwater recharge and recycling.

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	10,365	–

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Table 5D.50 Metropolitan Water District of Southern California

Items	Water Demand and Supplies (acre-feet)	Notes
Water Demand		
Service Area Water Demand	4,454,000	Based on retail municipal and industrial and agricultural water demands. Metropolitan Water District of Southern California. 2010. <i>The Regional Urban Water Management Plan</i> . November.
Water Sales to Others	–	–
Total Demand	4,454,000	–
Water Supplies for NAA		
CVP Water Supplies	–	–
SWP Water Supplies	1,441,000	1,911,500 acre-foot SWP Water Entitlement (Table A); transfer of SWP with Desert Water Agency and Coachella Valley Water District; San Luis Reservoir carryover storage; Article 21 supplies; and Yuba River Accord purchases.
Other Imported Water Supplies	1,480,000	1,250,000 acre-feet from Colorado River. 230,000 acre-feet from Los Angeles Aqueduct.
Local Surface Water Supplies	102,000	
Groundwater	1,530,000	1,430,000 acre-feet for groundwater pumping and 100,000 acre-feet for groundwater recovery.
Recycled Wastewater	333,000	–
Recycled Stormwater	–	–
Desalination	166,000	11,000 acre-feet Long Beach; 16,000 acre-feet West Basin; 72,000 acre-feet Metropolitan Water District of Orange County from Huntington Beach and Doheny projects; 11,000 acre-feet Oceanside; 56,000 acre-feet San Diego County Water Agency from Camp Pendleton (based on websites accessed in January 2015 for the cities of Long Beach and Oceanside, Metropolitan Water District of Orange County, San Diego County Water Authority, and West Basin Municipal Water District).
Transfers/Exchanges	–	–
Conservation	–	–
Total Water Supplies for NAA	5,052,000	–

Appendix 5D: Municipal and Industrial Water Demands and Supplies

Items	Water Demand and Supplies (acre-feet)	Notes
Possible Future Water Supplies	–	605,000 acre-feet of Delta improvements and other programs not approved at this time.
Subtotal Potential Future Water Supplies	–	All future projects not included for M&I No Action Alternative assumptions since some of the future projects are not fully defined or analyzed.
Total Potential Future Water Supplies	5,052,000	–

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