



This meeting is not subject to
Brown Act noticing requirements.
The agenda is subject to change.

**Water Demand
Committee Members:**
*Alvin Edwards, Chair
Jeanne Byrne
Molly Evans*

Alternate:
David Potter

Staff Contact
*Stephanie Locke
Arlene Tavani*

*After staff reports have
been distributed, if
additional documents are
produced by the District
and provided to the
Committee regarding any
item on the agenda, they
will be made available at
5 Harris Court, Building
G, Monterey, CA during
normal business hours.
In addition, such
documents may be posted
on the District website at
www.mpwmd.net.
Documents distributed at
the meeting will be made
available in the same
manner.*

AGENDA
Water Demand Committee
Of the Monterey Peninsula Water Management District

Tuesday, December 17, 2019, 4:00 PM
District Conference Room, 5 Harris Court, Building G, Monterey, CA

Call to Order

Comments from Public - *The public may comment on any item within the District's jurisdiction. Please limit your comments to three minutes in length.*

Action Items -- *Public comment will be received.*

1. Consider Adoption of October 31, 2019 Committee Meeting Minutes
2. Consider Adoption of Updated Water Demand Forecasts Related to Association of Monterey Bay Area Government 2018 Regional Growth Forecast and Regional Housing Needs Allocation Plan: 2014-2023, and Inclusion of 2019 Water Year

Discussion Items – *Public comment will be received.*

3. Discuss Concepts for Ordinance re Water for Affordable/Workforce Housing
4. Discuss Use of Remaining Proceeds from IRWM Disadvantaged Communities Fund

Adjournment

Upon request, MPWMD will make a reasonable effort to provide written agenda materials in appropriate alternative formats, or disability-related modification or accommodation, including auxiliary aids or services, to enable individuals with disabilities to participate in public meetings. MPWMD will also make a reasonable effort to provide translation services upon request. Submit requests by 5 pm on Friday, December 19, 2019, to the Board Secretary, MPWMD, P.O. Box 85, Monterey, CA, 93942. You may also fax your request to the Administrative Services Division at 831-644-9560, or call 831-658-5600.

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WATER DEMAND COMMITTEE

ITEM: ACTION ITEM

1. CONSIDER ADOPTION OF OCTOBER 31, 2019 COMMITTEE MEETING MINUTES

Meeting Date: December 17, 2019 **Budgeted:** N/A

From: David J. Stoldt, **Program/** N/A
 General Manager **Line Item No.:**

Prepared By: Arlene Tavani **Cost Estimate:** N/A

General Counsel Review: N/A

Committee Recommendation: N/A

CEQA Compliance: This action does not constitute a project as defined by the California Environmental Quality Act Guidelines section 15301

SUMMARY: Attached as **Exhibit 1-A**, are draft minutes of the October 31, 2019, committee meeting minutes.

RECOMMENDATION: The Water Demand Committee should review the minutes and approve them by motion.

EXHIBIT

1-A Draft minutes of October 31, 2019, committee meeting



EXHIBIT 1-A

DRAFT MINUTES Water Demand Committee of the Monterey Peninsula Water Management District October 31, 2019

Call to Order

The meeting was called to order at 3:45 pm in the MPWMD conference room.

Committee members present: Alvin Edwards, Chair
Jeanne Byrne
Molly Evans

Committee members absent: None

Staff members present: David Stoldt, General Manager
Stephanie Locke, Water Demand Division Manager
Arlene Tavani, Executive Assistant

District Council present: David Laredo

Comments from the Public: No comments.

Action Items

- 1. Consider Adoption of July 11, 2019 Committee Meeting Minutes**
On a motion by Evans and second of Byrne, the minutes were adopted on a unanimous vote of 3 – 0 by Evans, Byrne and Edwards.

Discussion Items

- 2. Discuss Proposals – Water for Affordable/Workforce Housing**
The committee reviewed information presented in the staff note. It was determined that the Technical Advisory Committee would be convened and asked to advise the District as to their water allocation needs for the next three or four years. Staff will move forward on developing an ordinance. During the discussion the following comments were made. (a) Property owners should be advised that their water credits are due to expire. (b) It could be advantageous to set a monetary value on water credits so that property owners would surrender unused water credits. (c) The District should not tell the jurisdictions how to allocate water to projects. (d) If water is developed for affordable housing, but the jurisdictions can use the water for any project, this will do nothing to create water for affordable housing. (e) School districts are interested in developing affordable housing for their teachers. For districts that span across multiple jurisdictions, should they be considered as separate entities from the jurisdictions? (f) If water credits or an allocation were to be created, transfers should be only within the jurisdictions – not jurisdiction to jurisdiction. (g) Rules should be changed to require that the District conduct CEQA review on water credit transfers. (h) Could ask Community Hospital of the Monterey Peninsula if any of its unused allocation could be given back to the District for other projects.

3. Discuss Updates to Non-Residential Water Use Factors

No discussion.

4. Update on Ordinance re Residential/Commercial Grey Water Systems

Locke provided an update on rules regarding permitting grey water systems. Staff will provide the regulations to the Technical Advisory Committee.

5. Discuss Draft MPWMD Testimony – Laguna Seca Moratorium

Stoldt provided an update to the committee. He stated that the District has taken a strong position of opposition to the expansion of service in the Laguna Seca Subarea. In regards to California American Water Company Application No. 19-07-005 to the California Public Utilities Commission, he submitted page 4 of his testimony in the proceeding that outlined the District's position on the application.

Adjournment: The meeting was adjourned at 4:55 pm.

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WATER DEMAND COMMITTEE

DISCUSSION ITEM

2. CONSIDER ADOPTION OF UPDATED WATER DEMAND FORECASTS RELATED TO ASSOCIATION OF MONTEREY BAY AREA GOVERNMENT 2018 REGIONAL GROWTH FORECAST AND REGIONAL HOUSING NEEDS ALLOCATION PLAN: 2014-2023, AND INCLUSION OF 2019 WATER YEAR

Meeting Date: December 17, 2019 **Budgeted:** N/A

From: David J. Stoldt **Program/**
General Manager **Line Item No.:** N/A

Prepared By: David J. Stoldt **Cost Estimate:** N/A

General Counsel Approval: N/A

Committee Recommendation: N/A

CEQA Compliance: Action does not constitute a project as defined by the California Environmental Quality Act Guidelines section 15378.

SUMMARY: At its September 16, 2019 meeting, the Board accepted a report titled “*Supply and Demand for Water on the Monterey Peninsula*”, which was Exhibit 9-A of the Board packet. The report has now been available 3 months and has been reviewed by members of the public, local organizations, and state agencies. While now publicly vetted, only three sets of comments were received: (a) California American Water provided a comment letter October 15, 2019, (b) The Coalition of Peninsula Businesses provided letters September 15, 2019 and September 24, 2019. All three comment letters argued that the findings in the report contradict those of the California Public Utilities Commission, but did not provide any substantive alternate assumptions or facts. The District’s General Manager has encouraged the parties to provide their own forecast of growth and/or market absorption of water demand, but they have failed to do so.

At the November 14, 2019 Coastal Commission hearing former Pacific Grove mayor Bill Kampe did raise two substantive issues regarding the report: (a) pre-Cease and Desist Order (CDO) market absorption of water demand may have been constrained in some jurisdictions due to a lack of water allocation, and (b) new statewide focus on housing will require water.

Additionally, subsequent to the release of the report the 2019 water year was completed, providing an additional data point on current customer demand.

This agenda item provides an update intended to address three items:

1. What is average current demand with the additional water year in the data?
2. What water will be required to meet future housing needs?
3. What might be the market absorption of water based on an objective third-party growth forecast?

As a result, certain figures or tables from the September 2019 *Supply and Demand for Water on the Monterey Peninsula* report were updated and included as **Exhibit 2-A**, attached.

RECOMMENDATION: It is recommended the Committee adopt the revisions to the September report and forward it to the Board for adoption.

DISCUSSION:

Current Demand: The 2019 water year showed actual demand (production for customer service) of 9,738 AF (acre-feet), a decline of almost 300 AF from 2018. As a result, the recent 3-year and 5-year averages are within 8 AF of each other, as shown in the table below:

| Period | Amount | Difference to CPUC/Cal-Am # |
|--------------------------|--------|-----------------------------|
| CPUC/Cal-Am Assumption | 12,350 | |
| 10-Year Average - Actual | 10,863 | 1,487 |
| 5-Year Average - Actual | 9,825 | 2,525 |
| 3-Year Average - Actual | 9,817 | 2,533 |

Water for Housing: **Exhibit 2-E** shows the Association of Monterey Bay Area Governments (AMBAG) Regional Housing Needs Allocation (RHNA.) Over the next twenty years, using two similar 10-year RHNA allocations, total water required for housing in the six Peninsula cities is 380 AF over twenty years, or 395 – 405 AF including an estimate for unincorporated County. See **Exhibit 2-D**. The RHNA is expected to be updated soon and the allocation could change.

The water for housing can be thought of as captured within the population growth component of the third-party growth forecast discussed below.

Water to meet an objective third-party growth forecast: Rather than to rely on pre-CDO absorption of water demand or alternative theoretical future demand scenarios, as was done in the September report, it is instructive to instead look at a regional growth forecast by an objective third-party. Here we evaluated AMBAG’s 2018 Regional Growth Forecast (see **Exhibit 2-C**), specifically the subregional population forecast as a proxy for residential water demand, and the subregional employment forecast, using job growth as a proxy for commercial water demand. (Certainly, other factors could be considered.) Using this methodology, the total water demand increase in the 20 year study period is 984 AF or 49.2 AFY (see **Exhibit 2-B**.) Applying the 49.2 AFY linearly across a 30-year horizon results in the revised Figure 3, shown in **Exhibit 2-A**.

EXHIBITS

- 2-A** Supply and Demand for Water on the Monterey Peninsula – Revisions
- 2-B** Water Required to Meet AMBAG 2018 Regional Growth Forecast
- 2-C** AMBAG 2018 Regional Growth Forecast – Table 7 and Table 8
- 2-D** Water Required to Meet AMBAG Regional Housing Needs Allocation Plan: 2014-2023
- 2-E** AMBAG Regional Housing Needs Allocation Plan: 2014-2023 – Page 15

EXHIBIT 2-A

Supply and Demand for Water on the Monterey Peninsula¹

Figure 1 - Revised
Annual Water Production for Customer Service (Demand)
Last 21 Years
(Acre-Feet)

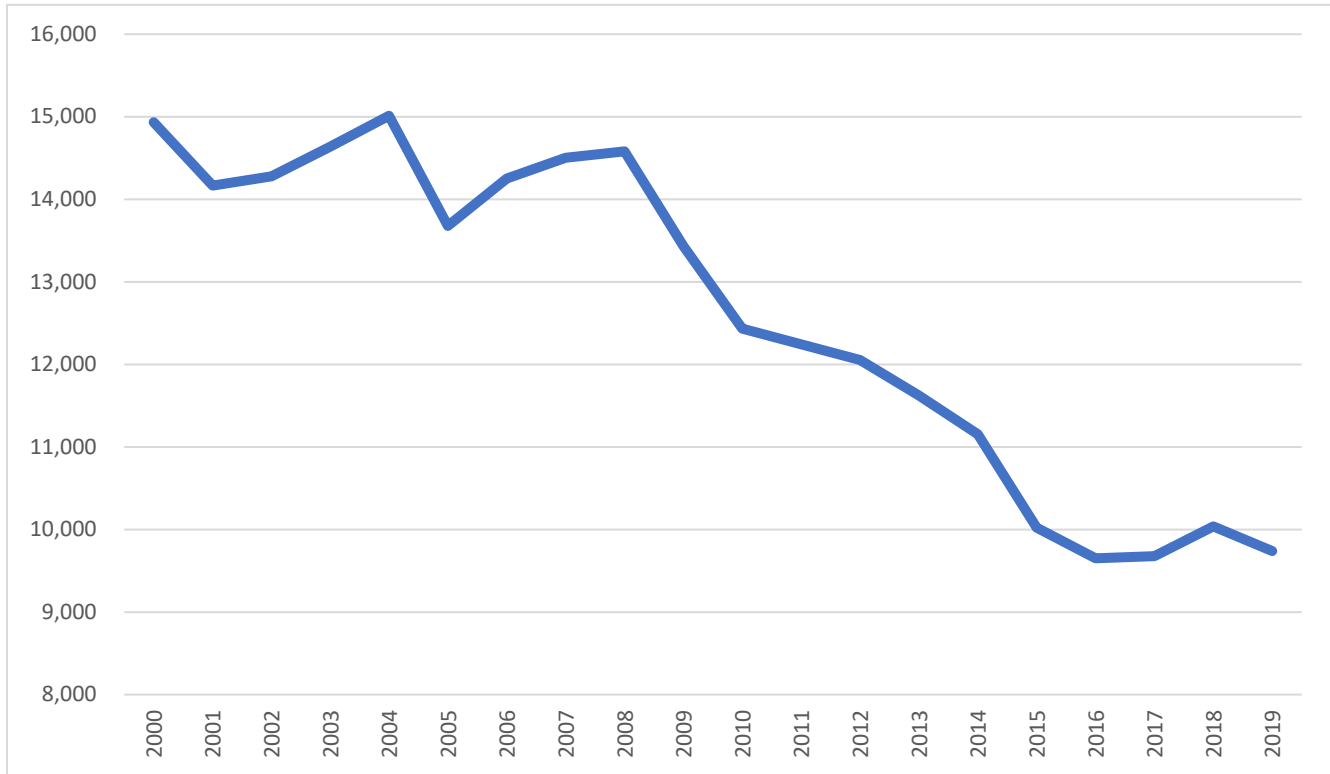


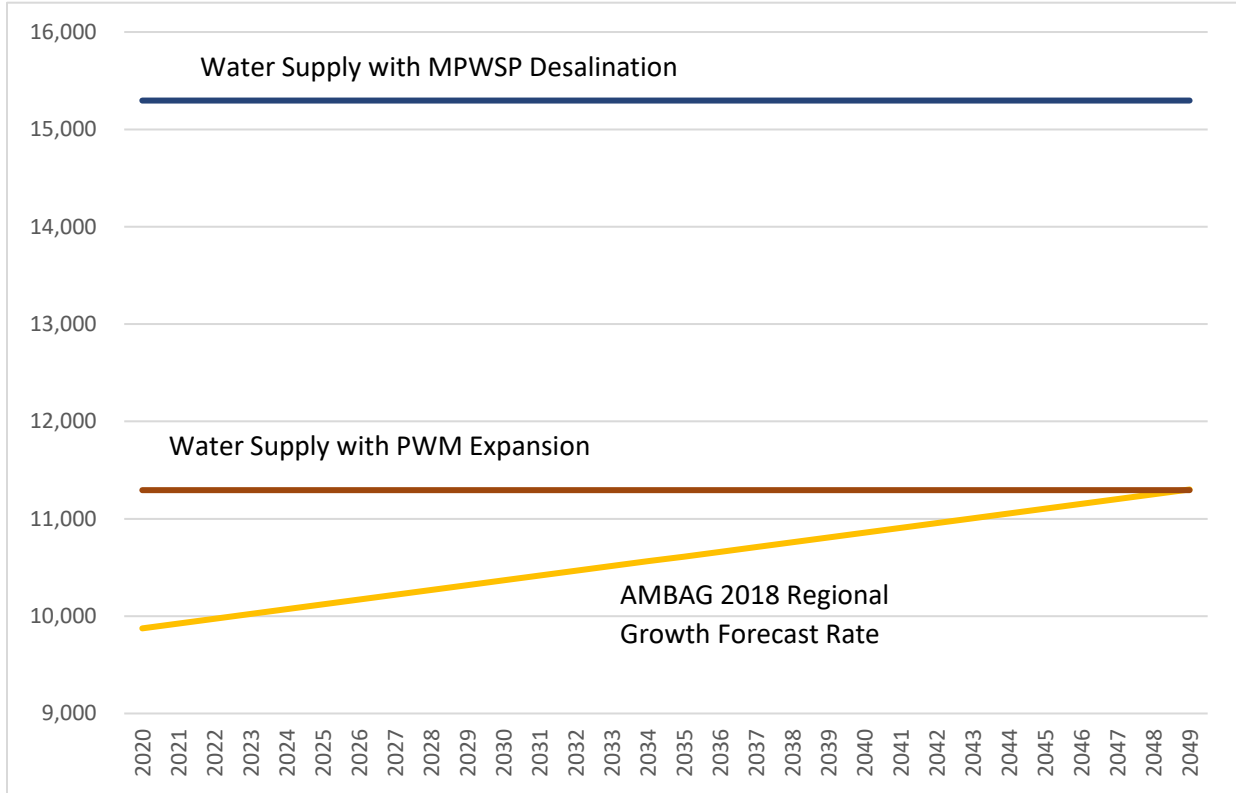
Table 3 shows how the 10-, 5-, and 3-year average demand compares to Cal-Am’s most recent 12,350 AFA assumption.

Table 3 - Revised
Alternate Average Current Customer Demand Assumptions
Updated for 2019 Water Year
(Acre-Feet)

| Period | Amount | Difference to CPUC/Cal-Am # |
|--------------------------|--------|-----------------------------|
| CPUC/Cal-Am Assumption | 12,350 | |
| 10-Year Average - Actual | 10,863 | 1,487 |
| 5-Year Average - Actual | 9,825 | 2,525 |
| 3-Year Average - Actual | 9,817 | 2,533 |

¹ Originally published September 2019. Updated for 2019 water year data. Prepared by David J. Stoldt, General Manager, Monterey Peninsula Water Management District 12-3-19

Figure 3 - Revised
Market Absorption of Water Demand Compared to Water Supply
Current Demand at 5-Year Average
AMBAG 2018 Regional Growth Forecast
(Acre-Feet)



This chart shows that, assuming a starting current demand at the 5-year average (inclusive of water year 2019), both water supply alternatives meet 30-year market absorption at the AMBAG 2018 Regional Growth Forecast rate.

EXHIBIT 2-B

Water Required to Meet AMBAG 2018 Regional Growth Forecast

Prepared by David J. Stoldt, General Manager, Monterey Peninsula Water Management District

Water Required for Population Growth¹

| | Monterey | Pacific Grove | Carmel-by-the-Sea | Sand City | Seaside | Del Rey Oaks | County ² | TOTAL |
|--------------------|----------|---------------|-------------------|-----------|---------|--------------|---------------------|----------------|
| Population in 2020 | 28,726 | 15,349 | 3,833 | 544 | 34,301 | 1,949 | 7,182 | 91,884 |
| Population in 2040 | 30,976 | 16,138 | 3,876 | 1,494 | 37,802 | 2,987 | 7,541 | 100,814 |
| Increase | 2,250 | 789 | 43 | 950 | 3,501 | 1,038 | 359 | 8,930 |
| GPCD ³ | 56.8 | 56.8 | 56.8 | 56.8 | 56.8 | 56.8 | 56.8 | 56.8 |
| Acre-Feet per Year | 143 AF | 50 AF | 3 AF | 60 AF | 223 AF | 66 AF | 23 AF | 568 AF |

*: Likely overstates population growth in Cal-Am service area due to some growth attributable to the Fort Ord build-out.

Water Required for Employment Growth⁴

| | Monterey | Pacific Grove | Carmel-by-the-Sea | Sand City | Seaside | Del Rey Oaks | County ⁵ | TOTAL |
|---|----------|---------------|-------------------|-----------|---------|--------------|---------------------|-----------------|
| Jobs in 2020 | 34,434 | 5,093 | 2,998 | 1,569 | 10,161 | 371 | 4,300 | 58,926 |
| Jobs in 2040 | 40,173 | 5,808 | 3,378 | 1,810 | 11,299 | 432 | 4,845 | 67,745 |
| Increase | 16.7% | 14.0% | 12.7% | 15.4% | 11.2% | 16.4% | 12.7% | |
| Commercial Consumption In 2019 ⁶ | 1,371 AF | 248 AF | 203 AF | 54 AF | 282 AF | 21 AF | 651 AF | 2,830 AF |
| Commercial Consumption In 2040 ⁷ | 1,600 AF | 283 AF | 229 AF | 62 AF | 314 AF | 24 AF | 734 AF | 3,246 AF |
| Increase | 229 AF | 35 AF | 26 AF | 8 AF | 32 AF | 3 AF | 83 AF | 416 AF |

Using this methodology, total water demand increase in 20 year period is 984 AF or 49.2 AFY.

¹ Association of Monterey Bay Area Governments. 2018. "2018 Regional Growth Forecast." Table 8, page 32

² Uses Cal-Am service area population reported in SWRCB June 2014 – September 2019 Urban Water Supplier Monthly Reports (Raw Dataset), minus urban areas, escalated at 5%.

³ SWRCB June 2014 – September 2019 Urban Water Supplier Monthly Reports (Raw Dataset); Average gallons per capita per day for August 2018 – July 2019; www.waterboard.ca.gov

⁴ Association of Monterey Bay Area Governments. 2018. "2018 Regional Growth Forecast." Table 7, page 30

⁵ California Employment Development Department, Monthly Labor Force Data for Cities and Census Designated Places. November 15, 2019. Sum of Carmel Valley Village CDP and Del Monte Forest CDP. Escalated at same rate as Carmel-by-the-Sea.

⁶ Cal-Am. 2019. "Customers and Consumption by Political Jurisdiction"

⁷ Assumes escalation at same rate as job growth 2020 to 2040



A

Regional Growth Forecast

EXHIBIT 2-C**2018 Regional Growth Forecast****Table 7: Subregional Employment Forecast**

| Geography | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | Change 2015-2040 | |
|-------------------|---------|---------|---------|---------|---------|---------|------------------|---------|
| | | | | | | | Numeric | Percent |
| AMBAG Region | 337,600 | 351,800 | 363,300 | 374,100 | 384,800 | 395,000 | 57,400 | 17% |
| Monterey County | 203,550 | 211,799 | 218,203 | 224,207 | 230,212 | 235,822 | 32,272 | 16% |
| Carmel-By-The-Sea | 2,935 | 2,998 | 3,096 | 3,195 | 3,289 | 3,378 | 443 | 15% |
| Del Rey Oaks | 359 | 371 | 387 | 404 | 418 | 432 | 73 | 20% |
| Gonzales | 4,477 | 4,963 | 5,064 | 5,166 | 5,278 | 5,371 | 894 | 20% |
| Greenfield | 7,024 | 7,552 | 7,729 | 7,813 | 7,911 | 7,982 | 958 | 14% |
| King City | 4,441 | 4,692 | 4,862 | 5,013 | 5,154 | 5,287 | 846 | 19% |
| Marina | 6,340 | 6,649 | 6,886 | 7,140 | 7,373 | 7,620 | 1,280 | 20% |
| Monterey | 34,030 | 34,434 | 35,970 | 37,405 | 38,814 | 40,173 | 6,143 | 18% |
| Pacific Grove | 5,000 | 5,093 | 5,272 | 5,466 | 5,637 | 5,808 | 808 | 16% |
| Salinas | 64,396 | 67,270 | 69,660 | 71,958 | 74,160 | 76,294 | 11,898 | 18% |
| Sand City | 1,517 | 1,569 | 1,633 | 1,698 | 1,758 | 1,810 | 293 | 19% |
| Seaside | 9,650 | 10,161 | 10,455 | 10,726 | 11,020 | 11,299 | 1,649 | 17% |
| Soledad | 3,442 | 3,584 | 3,694 | 3,786 | 3,885 | 3,978 | 536 | 16% |
| Balance Of County | 59,939 | 62,503 | 63,497 | 64,438 | 65,516 | 66,390 | 6,451 | 11% |
| San Benito County | 18,000 | 19,240 | 19,957 | 20,617 | 21,264 | 21,913 | 3,913 | 22% |
| Hollister | 13,082 | 14,035 | 14,608 | 15,132 | 15,650 | 16,172 | 3,090 | 24% |
| San Juan Bautista | 559 | 591 | 615 | 639 | 662 | 685 | 126 | 23% |
| Balance Of County | 4,359 | 4,614 | 4,734 | 4,846 | 4,951 | 5,056 | 697 | 16% |
| Santa Cruz County | 116,050 | 120,761 | 125,141 | 129,275 | 133,324 | 137,265 | 21,215 | 18% |
| Capitola | 7,062 | 7,199 | 7,464 | 7,727 | 7,979 | 8,228 | 1,166 | 17% |
| Santa Cruz | 40,986 | 43,090 | 44,647 | 46,153 | 47,616 | 49,085 | 8,099 | 20% |
| Scotts Valley | 7,475 | 7,612 | 7,820 | 8,004 | 8,180 | 8,349 | 874 | 12% |
| Watsonville | 22,644 | 23,482 | 24,382 | 25,200 | 26,008 | 26,772 | 4,128 | 18% |
| Balance Of County | 37,883 | 39,339 | 40,826 | 42,191 | 43,541 | 44,831 | 6,948 | 18% |

Sources: Data for 2015 from InfoUSA and the California Employment Development Department.

Forecast years were prepared by AMBAG and PRB.

EXHIBIT 2-C**2018 Regional Growth Forecast****Table 8: Subregional Population Forecast**

| Geography | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | Change 2015-2 040 | |
|----------------------|---------|---------|---------|---------|---------|---------|-------------------|---------|
| | | | | | | | Numeric | Percent |
| AMBAG Region | 762,676 | 791,600 | 816,900 | 840,100 | 862,200 | 883,300 | 120,624 | 16% |
| Monterey County | 432,637 | 448,211 | 462,678 | 476,588 | 489,451 | 501,751 | 69,114 | 16% |
| Carmel-By-The-Sea | 3,824 | 3,833 | 3,843 | 3,857 | 3,869 | 3,876 | 52 | 1% |
| Del Rey Oaks | 1,655 | 1,949 | 2,268 | 2,591 | 2,835 | 2,987 | 1,332 | 80% |
| Gonzales | 8,411 | 8,827 | 10,592 | 13,006 | 15,942 | 18,756 | 10,345 | 123% |
| Greenfield | 16,947 | 18,192 | 19,425 | 20,424 | 21,362 | 22,327 | 5,380 | 32% |
| King City | 14,008 | 14,957 | 15,574 | 15,806 | 15,959 | 16,063 | 2,055 | 15% |
| Marina | 20,496 | 23,470 | 26,188 | 28,515 | 29,554 | 30,510 | 10,014 | 49% |
| Marina balance | 19,476 | 20,957 | 22,205 | 22,957 | 23,621 | 24,202 | 4,726 | 24% |
| CSUMB (portion) | 1,020 | 2,513 | 3,983 | 5,558 | 5,933 | 6,308 | 5,288 | 518% |
| Monterey | 28,576 | 28,726 | 29,328 | 29,881 | 30,460 | 30,976 | 2,400 | 8% |
| Monterey balance | 24,572 | 24,722 | 25,324 | 25,877 | 26,456 | 26,972 | 2,400 | 10% |
| DLI & Naval Postgrad | 4,004 | 4,004 | 4,004 | 4,004 | 4,004 | 4,004 | 0 | 0% |
| Pacific Grove | 15,251 | 15,349 | 15,468 | 15,598 | 15,808 | 16,138 | 887 | 6% |
| Salinas | 159,486 | 166,303 | 170,824 | 175,442 | 180,072 | 184,599 | 25,113 | 16% |
| Sand City | 376 | 544 | 710 | 891 | 1,190 | 1,494 | 1,118 | 297% |
| Seaside | 34,185 | 34,301 | 35,242 | 36,285 | 37,056 | 37,802 | 3,617 | 11% |
| Seaside balance | 26,799 | 27,003 | 27,264 | 27,632 | 28,078 | 28,529 | 1,730 | 6% |
| Fort Ord (portion) | 4,450 | 4,290 | 4,340 | 4,490 | 4,690 | 4,860 | 410 | 9% |
| CSUMB (portion) | 2,936 | 3,008 | 3,638 | 4,163 | 4,288 | 4,413 | 1,477 | 86% |
| Soledad | 24,809 | 26,399 | 27,534 | 28,285 | 29,021 | 29,805 | 4,996 | 20% |
| Soledad balance | 16,510 | 18,100 | 19,235 | 19,986 | 20,722 | 21,506 | 4,996 | 30% |
| SVSP & CTF | 8,299 | 8,299 | 8,299 | 8,299 | 8,299 | 8,299 | 0 | 0% |
| Balance Of County | 104,613 | 105,361 | 105,682 | 106,007 | 106,323 | 106,418 | 1,805 | 2% |
| San Benito County | 56,445 | 62,242 | 66,522 | 69,274 | 72,064 | 74,668 | 18,223 | 32% |
| Hollister | 36,291 | 39,862 | 41,685 | 43,247 | 44,747 | 46,222 | 9,931 | 27% |
| San Juan Bautista | 1,846 | 2,020 | 2,092 | 2,148 | 2,201 | 2,251 | 405 | 22% |
| Balance Of County | 18,308 | 20,360 | 22,745 | 23,879 | 25,116 | 26,195 | 7,887 | 43% |
| Santa Cruz County | 273,594 | 281,147 | 287,700 | 294,238 | 300,685 | 306,881 | 33,287 | 12% |
| Capitola | 10,087 | 10,194 | 10,312 | 10,451 | 10,622 | 10,809 | 722 | 7% |
| Santa Cruz | 63,830 | 68,381 | 72,091 | 75,571 | 79,027 | 82,266 | 18,436 | 29% |
| Santa Cruz balance | 46,554 | 49,331 | 51,091 | 52,571 | 54,027 | 55,266 | 8,712 | 19% |
| UCSC | 17,276 | 19,050 | 21,000 | 23,000 | 25,000 | 27,000 | 9,724 | 56% |
| Scotts Valley | 12,073 | 12,145 | 12,214 | 12,282 | 12,348 | 12,418 | 345 | 3% |
| Watsonville | 52,562 | 53,536 | 55,187 | 56,829 | 58,332 | 59,743 | 7,181 | 14% |
| Balance Of County | 135,042 | 136,891 | 137,896 | 139,105 | 140,356 | 141,645 | 6,603 | 5% |

Sources: Data for 2015 are from the U.S. Census Bureau and California Department of Finance. Forecast years were prepared by AMBAG and PRB.

EXHIBIT 2-D

Water Required to Meet Regional Housing Needs Allocation Plan: 2014-2023

Prepared by David J. Stoldt, General Manager, Monterey Peninsula Water Management District

2014-2023 RHNA Goals by Local Jurisdiction¹

| | Monterey | Pacific Grove | Carmel-by-the-Sea | Sand City | Seaside | Del Rey Oaks | TOTAL |
|----------------------|----------|---------------|-------------------|-----------|---------|--------------|-------|
| Total Allocation | 650 | 115 | 31 | 55 | 393 | 27 | 1,271 |
| Very Low (24.1%) | 157 | 28 | 7 | 13 | 95 | 7 | 307 |
| Low (15.7%) | 102 | 18 | 5 | 9 | 62 | 4 | 200 |
| Moderate (18.2%) | 119 | 21 | 6 | 10 | 72 | 5 | 233 |
| Above Moderate (42%) | 272 | 48 | 13 | 23 | 164 | 11 | 531 |

*: Does not include unincorporated Monterey County, which might be 15-25 additional AFY to full build-out

Estimated Water Required to Meet RHNA Goals on the Monterey Peninsula

| | TOTAL RHNA GOAL | Water Required (AFY) ² | Factor Used |
|--|-----------------|-----------------------------------|---|
| Very Low (24.1%) | 307 | 37 | 0.12 AFA (multi-family) |
| Low (15.7%) | 200 | 24 | 0.12 AFA (multi-family) |
| Moderate (18.2%) | 233 | 37 | 0.16 (half single family/half multi-family) |
| Above Moderate (42%) | 531 | 92 | 0.173 (2/3 single family/1/3 multi-family) |
| Total Allocation/Water Required | 1,271 | 190 | |

Over two similar 10-year periods, total water required for housing calculated with this methodology is 380 AF over twenty years, or 395 – 405 AF including estimate for unincorporated County (footnote above.)

¹ Association of Monterey Bay Area Governments. ND. “Regional Housing Needs Allocation Plan: 2014-2023.” Available at: https://ambag.org/sites/default/files/documents/RHNP%202014-2023_Final_revised.pdf.

² Calculated based on the RHNA goals for the six cities in the Monterey Peninsula and MPWMD’s water use factors for single family units (0.2 AFA) and multi-family units (0.12 AFA).



REGIONAL HOUSING NEEDS ALLOCATION PLAN: 2014 - 2023

ASSOCIATION OF MONTEREY BAY AREA GOVERNMENTS

EXHIBIT 2-E

Regional Housing Needs Allocation Plan: 2014 - 2023

RHNA Allocation

| Geography | Total Allocation | Very Low (24.1%) | Low (15.7%) | Moderate (18.2%) | Above Moderate (42.0%) |
|--------------------------|-------------------------|-------------------------|--------------------|-------------------------|-------------------------------|
| AMBAG Region | 10,430 | 2,515 | 1,640 | 1,900 | 4,375 |
| Monterey County | 7,386 | 1,781 | 1,160 | 1,346 | 3,099 |
| Carmel-By-The-Sea | 31 | 7 | 5 | 6 | 13 |
| Del Rey Oaks | 27 | 7 | 4 | 5 | 11 |
| Gonzales | 293 | 71 | 46 | 53 | 123 |
| Greenfield | 363 | 87 | 57 | 66 | 153 |
| King City | 180 | 43 | 28 | 33 | 76 |
| Marina | 1,308 | 315 | 205 | 238 | 550 |
| Monterey | 650 | 157 | 102 | 119 | 272 |
| Pacific Grove | 115 | 28 | 18 | 21 | 48 |
| Salinas | 2,229 | 538 | 350 | 406 | 935 |
| Sand City | 55 | 13 | 9 | 10 | 23 |
| Seaside | 393 | 95 | 62 | 72 | 164 |
| Soledad | 191 | 46 | 30 | 35 | 80 |
| Balance Of County | 1,551 | 374 | 244 | 282 | 651 |
| Santa Cruz County | 3,044 | 734 | 480 | 554 | 1,276 |
| Capitola | 143 | 34 | 23 | 26 | 60 |
| Santa Cruz | 747 | 180 | 118 | 136 | 313 |
| Scotts Valley | 140 | 34 | 22 | 26 | 58 |
| Watsonville | 700 | 169 | 110 | 127 | 294 |
| Balance Of County | 1,314 | 317 | 207 | 239 | 551 |