



General Manager's Report Item 8:

Status Report on Cal-Am Compliance
with SWRCB Orders and Seaside Basin
Decision as of November 1, 2014

Meeting Date: November 17, 2014

Staff contact: David J. Stoldt

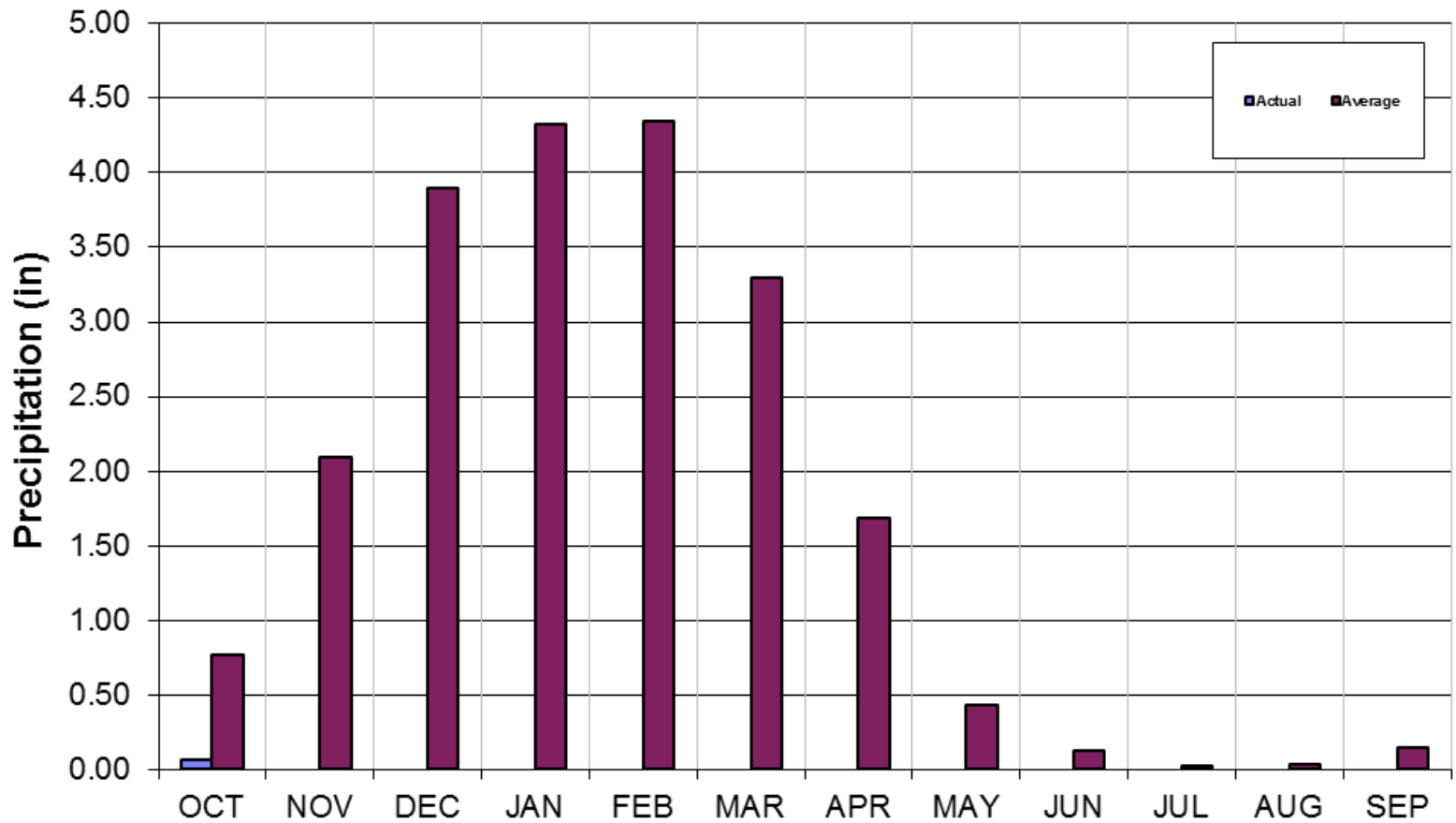
Actual versus Target Production for Cal-Am: Oct 2014 (All Values in Acre-Feet)

Year-to-Date Values	Carmel River Basin	Seaside Groundwater Basin		Water Projects		MPWRS Total
		Coastal	Laguna Seca	ASR Projects	Sand City	
Target	667	400	5	0	25	1,097
Actual	614	279	33	0	17	943
Difference	53	121	-28	0	8	154

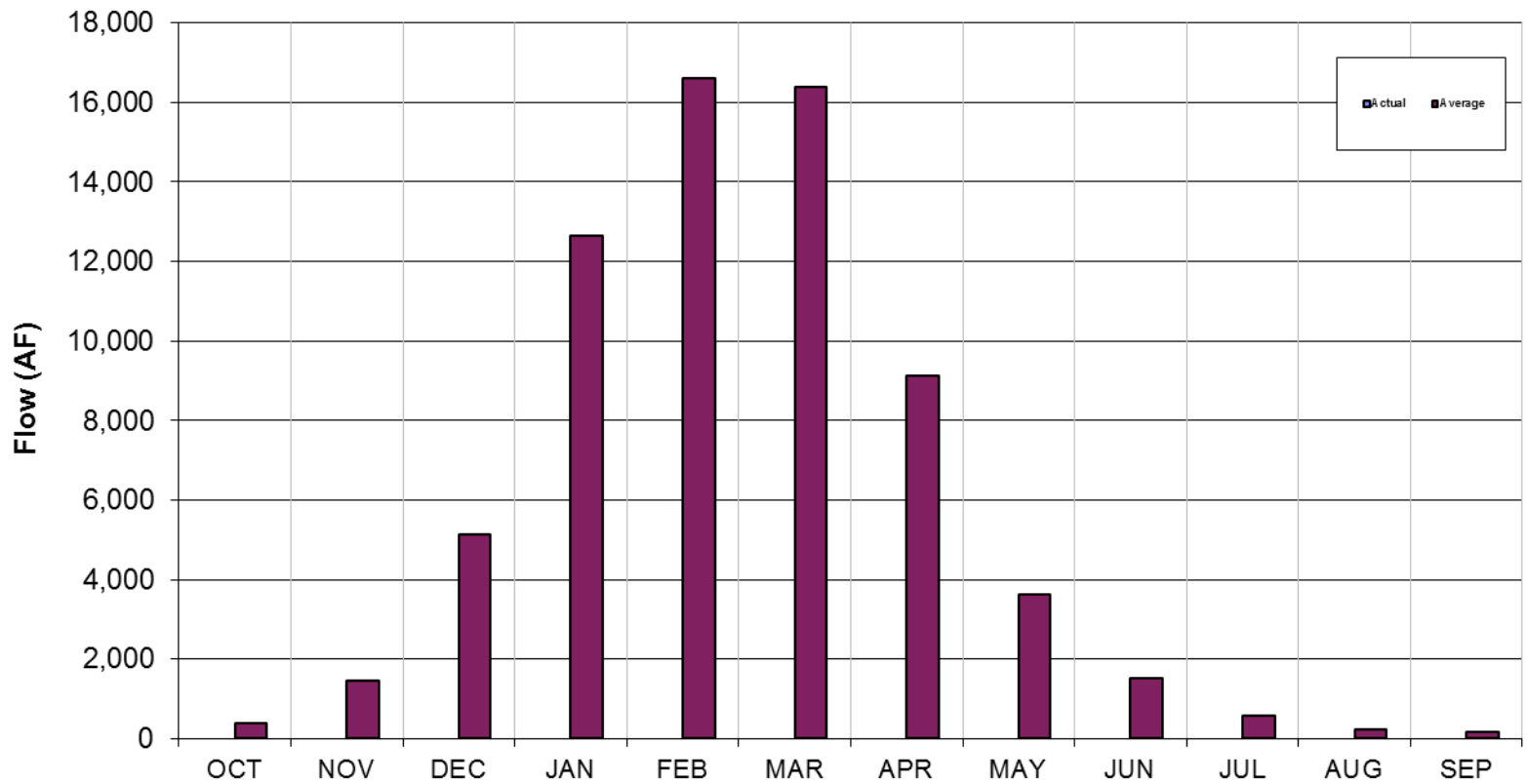
Notes:

1. “Sand City” refers to the Sand City Desalination Facility, which pumps brackish water from the Seaside Groundwater Basin as source water. The Sand City values refer to yield from the facility.
2. “ASR Projects” refers to the Phase 1 and 2 Aquifer Storage and Recovery (ASR) Project and the values refer to the amount of stored water recovered for customer service.
3. “MPWRS” refers to Monterey Peninsula Water Resource System.
4. Carmel River Basin Target reflects assumed annual production of 300 AF from Sand City.
5. Production numbers are estimated pending finalization of CAW production data.
6. Carmel River Basin target represents quarterly adjustments based on differences between budgeted values and actual production from other sources.

Recorded Rainfall at San Clemente Dam: Water Year 2015



Estimated Unimpaired Carmel River Flow at San Clemente Dam: Water Year 2015





SAVE WATER – GO BLUE

Conservation Program Update

Stephanie Locke

November 17, 2014

Save Water! Go BLUE!

- Rainwater Harvesting workshop and demonstration
 - Earthbound Farms in Carmel Valley
 - December 13, 2014 (Tentative): Installation at Carmel Valley Community Center



GO BLUE Free Devices

- Shower buckets (while you wait for hot)
- Free hose nozzles
- Moisture meters
- 1.5 gpm showerheads
- Faucet aerators
- Leak detector tablets
- Shower timers
- Leak calculators
- Flow measurement bags
- Toilet flappers
- Pre-rinse spray valves
- Dish squeegees
- Shower shut-off valves
- Hotel/restaurant signage



Save Water! Go BLUE!

- Drought Drive Ups
 - Nov 24: The Crossroads, Carmel
 - Nov 25: Pacific Grove behind Bank of America
 - Dec 5: Monterey Peninsula College
 - Dec 6: Seaside City Hall

FREE Water Saving Equipment!

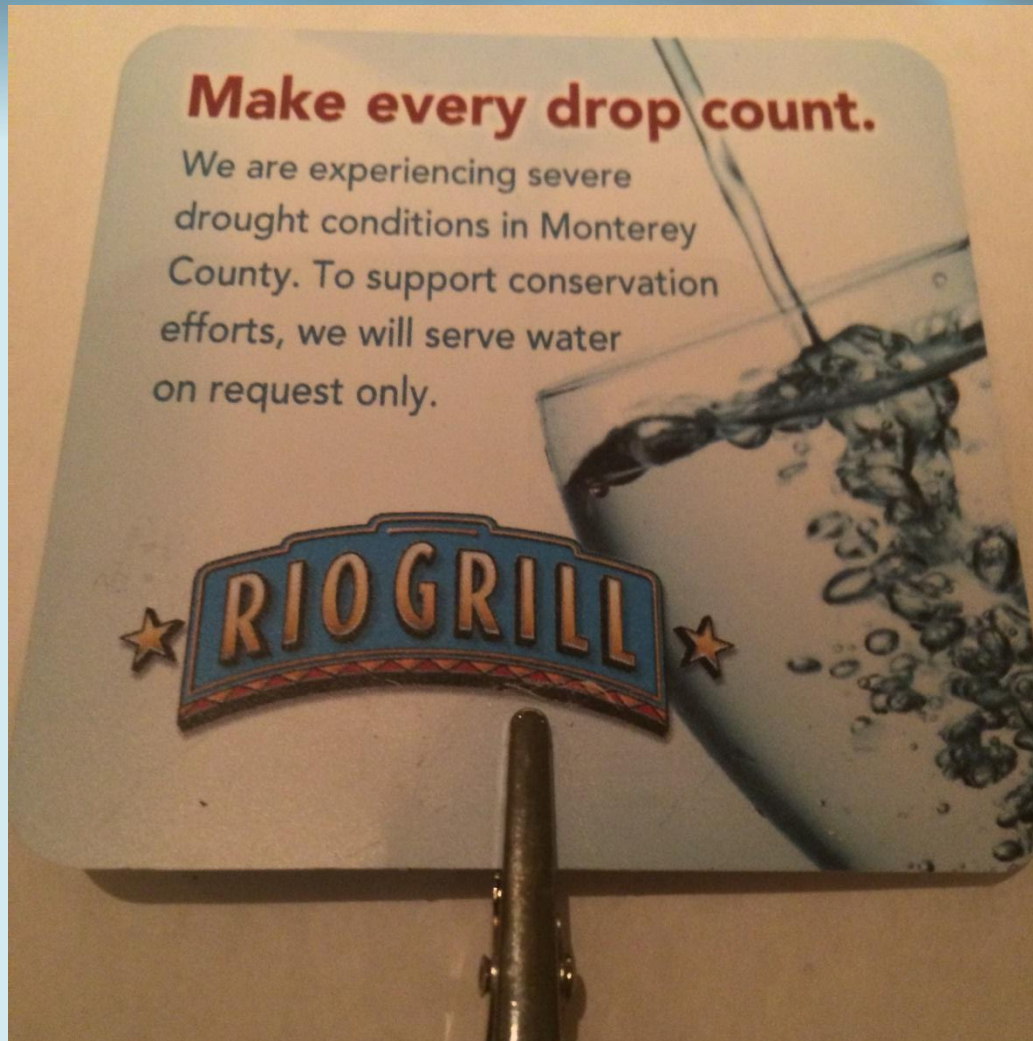


Water Waste Enforcement

- Monterey Peninsula Hotline **831-658-5653**
- Websites Water Waste Reporting online form
 - www.montereywaterinfo.org
 - www.mpwmd.net



Save Water! Go BLUE!



Join the Team!



www.MontereyWaterInfo.org

PRESENTATION TO THE MPWMD Board Meeting

November 17,2014

Funding farms to save cities: An idea on water recycling from CSUMB students (Jordan Duffner, Jeff Toyoshima, Miguel Padilla, and Mary Ann Hernandez)

Speaker 1

Chair Potter, members of the Board, my name is Jordan Duffner and I am from Marina. We are a group of CSUMB students concerned about the future of water in our region. We have learned about water issues in our service learning course, Marine Science in the Community. As young people who will be inheriting all of the solutions and their inherent consequences, we are compelled to speak to the benefits of water recycling and offer an idea to help this move forward. As we all know, water resources are becoming more scarce. Arid regions, like California, will get drier and drier while the population will continue to grow. So we feel strongly that we need a diverse portfolio of water solutions. In the near future, we may be forced to use more fossil fuel to meet growing demands for electricity. In communities where seawater desalination is part of the water supply, even more electricity will be needed to generate water. This will raise the cost of living even more. The current drought gives us some insight of what to expect. In the future, we believe there are great cost benefits to cities if we can maximize the development of more energy efficient water technologies now.

Speaker 2

Members of the Board, my name is Jeff Toyoshima and I am from Monterey. Over the last few years, we have witnessed conflicts and fears over economic hardship anticipated by our community over a water crisis. What will happen when there really is no more water?

We have learned that seawater desalination is being considered not only by the Monterey Peninsula, but by the cities of Marina and Salinas, as well. We wonder how our generation will be able to afford water in the future given the current solutions being considered. The highly energy-intensive process of desalination means becoming

almost entirely dependent on fossil fuels for water production. While we realize desalination will be a component of the portfolio, must it become our primary urban supply? And if so, will it leave our generation with a need to find new energy sources to fuel it? Will it create new environmental problems in the ocean to solve later?

It is important to note that desalination technology is progressing rapidly, especially in the realm of fuel efficiency. If we build as quickly as possible without considering these technological advances, we run the risk of being stuck with an expensive and inefficient process.

At the October 20th Board meeting, Chair Potter expressed a future vision for water. That the Monterey Peninsula must reach out across the river and develop collaborations with the Salinas Valley in order to create long term regional water solutions. We are motivated by this vision and stand here tonight to say that future water solutions must be affordable, sustainable, and beneficial to both sides of the Salinas River. Therefore, we would like to humbly submit an idea that provides incentive to maximize the use of wastewater and stormwater resources so that the need for costly seawater desalination can be minimized and the many advantages of a diverse water portfolio can be maximized.

Speaker 3

Members of the Board, my name is Miguel Padilla and I am from Salinas. It is known that drip irrigation can provide up to 40% of water savings compared to conventional overhead spray systems and if coupled with a need based irrigation system, even more water can be conserved. Researchers at CSUMB and NASA-Ames are developing technology that use satellite data in combination with information from agricultural weather stations to track crop canopy development and crop water requirements (due to evapotranspiration) at the scale of individual fields (Melton, et al. 2012). The researchers are developing web and mobile interfaces for this data to help growers obtain information on crop water requirements that can be used to assess and improve irrigation management strategies. Yield vs irrigation trials conducted to date for lettuce

and broccoli have shown that these evapotranspiration-based irrigation management tools can reduce total applied irrigation by 22-34% or more relative to standard practice in the Salinas Valley without any significant changes in yields (Johnson et al. 2014; Melton 2013). In addition, preliminary results also suggest that this approach can substantially reduce the amount of nitrate leached below the root zone during irrigation events (Cahn 2012; Cahn et al. 2014; F. Melton, pers comm.). This technology has not yet been tested on Castroville fields irrigated with recycled wastewater through purple pipes. Nonetheless, we believe Castroville farmers may benefit greatly in the future from increased irrigation efficiency, especially if urban areas like Salinas and the Peninsula turn to expensive seawater desalination.

We considered the possibility that once the CalAm desalination plant becomes operational and water bills rise by a projected 45% (Burnett 2014), more people will take steps to reduce household water use. More homes will adopt grey water technology for landscaping and less water will be sent to the Marina wastewater facility. We have already seen a reduction in wastewater flows in our area during the current drought. All of this will negatively impact the Castroville farmers.

See additional information for this section under ADDENDUM.

Speaker 4

Members of the Board, my name is Mary Ann Hernandez and I am from Marina. Currently, farms do not use recycled wastewater or stormwater in winter. As a result, each year a large volume of clean, valuable water is discharged into the ocean. Unused storm and wastewater could be of great beneficial use to communities that are willing to invest in treating it. It would save them money by reducing their need for expensive desalination water and asking the public to help invest in new technology for farms seems like one way they could give something back to the Salinas Valley. We propose that the Board consider creating a fund that invests in these new technologies to help those farmers reliant on recycled wastewater in order to improve crop irrigation efficiency. In exchange, farmers would allow cities to have access to unwanted winter stormwater and possibly wastewater for recycling and aquifer recharge, as the City of

Pacific Grove is proposing. We acknowledge that the various agreements and MOUs in place regarding wastewater recycling come with a very complicated history, are fragile, and took months of negotiations. Nevertheless, we feel compelled to suggest alternatives in the interest of our future.

Speaker 1, Conclusion

Members of the Board, it does not matter if you live on the Salinas side or the Peninsula side of the river. We all depend on each other. Each day, residents from the Salinas Valley come to the Monterey Peninsula to work. Each day, meals consumed by Peninsula residents or vacationing tourists include fresh, affordable produce grown on Salinas farms. Neither the Peninsula nor the Valley have enough water to continue our independent ways of life if we allow ourselves to be separated by a simple river.

Our group concludes that maximizing the use of stormwater and wastewater projects now would make water more affordable and sustainable in the long run for cities. In return, funding advanced irrigation technologies to help farmers adapt to a future with less available water is just one way cities can help farms.

What we propose might be similar to the Carmel River mitigation fee charged to CalAm ratepayers. This fee raised over \$11 million dollars and is currently used to fund projects that restore the river for the benefit of fish (MPWMD 2012). In the coming years, CalAm will no longer have an impact on the river once their water projects are built. At that time, the mitigation fee will be removed. In a sense, we are proposing a replacement of that fee with an 'irrigation improvement technology fee' so that farmers can use these new systems to irrigate more efficiently, thus saving water - a new financial incentive that benefits cities and farms in the long run.

We respectfully offer this as a solution to bring cities and farms together for a mutually beneficial collaborative future. We thank you for your attention. We would also like to thank Dr. Carol Reeb of Hopkins Marine Station (Stanford University), Forrest Melton, and Kirk Post of CSUMB – NASA Ames, for their time, help and extensive explanations

into this complex issue, as well as Ximena Weissbluth, our Marine Science in the Community instructor at CSUMB. We are happy to answer any questions.

Opinions expressed herein belong to individual speakers and do not necessarily reflect those of CSUMB, its staff, or students.

REFERENCES:

- Burnett, J. 2014. Water Management: finding consensus in complex problems. Keynote address for the 2014 Water Conference, "Conflicts Over Water and Building Bridges with Water." Monterey Institute for International Studies, November 6-8, 2014. Monterey, CA.
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- Cahn, M., R. Smith, T. Hartz, B. Farrara, L. Johnson, and F. Melton. *Submitted.* Irrigation and nitrogen management decision support tool for cool season vegetables and berries. *In, Proc. USCID Water Management Conference, 4-7 March, Sacramento.*
- Johnson, L., M. Cahn, F. Martin, F. Melton, S. Benzen, B. Farrara, C. Lund, K. Post. *submitted.* Results from 2012-2013 irrigation trials in cool season vegetables. *In, Proc. USCID Water Management Conference, 4-7 March, Sacramento.*
- Melton, F., L. Johnson, C. Lund, L. Pierce, A. Michaelis, S. Hiatt, A. Guzman, D. Adhikari, A. Purdy, C. Rosevelt, P. Votava, T. Trout, B. Temesgen, K. Frame, E. Sheffner, and R. Nemani, 2012. Satellite Irrigation Management Support with the Terrestrial Observation and Prediction System. *IEEE/JSTARS 5:1709-1721*

Melton, F. 2013. Managing Irrigation from Space: Mapping crop water requirements with satellite observations and CiMIS data. (online slide presentation showing preliminary data in Salinas. See Lettuce Trials, Broccoli Trial).

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Nemani, R., H. Hashimoto, P. Votava, F. Melton, W. Wang, A. Michaelis, L. Mutch, C. Milesi, S. Hiatt, and M. White, 2009. Monitoring and forecasting ecosystem dynamics using the Terrestrial Observation and Prediction System (TOPS), *Rem. Sens. Environ.* 113:1497-1509.

Addendum (to presented information):

Forrest Melton, a Senior Research Scientist with the NASA Ames Cooperative for Research in Earth Science and Technology (*ARC-CREST*) and affiliated with the Division of Environmental Policy and CSUMB added this supplement to the information presented by Speaker 3. He notes that their project team found a wide range of approaches to irrigation management in the Salinas Valley and that some growers are already using evapotranspiration-based irrigation management strategies with drip irrigation. For those growers, it is possible no significant gains in irrigation efficiency would be expected with the Satellite Irrigation Management Support (SIMS) tools proposed here (<http://ecocast.arc.nasa.gov/dgw/sims/>). His project team is currently conducting additional validation studies and working to complete the prototype web and mobile interfaces for 2015 and plans to make the data and tools freely available in collaboration with the California Department of Water Resources.

He notes that CSUMB is also collaborating with the University of California Cooperative Extension (UCCE), which is developing a closely related tool called CropManage. CropManage works for lettuce and broccoli. This tool is currently

available at no charge (<http://ucanr.edu/blogs/blogcore/postdetail.cfm?postnum=8501>).

Both CropManage and SIMS are being developed as free online tools. However, growers will need to supply accurate data on irrigation applications. This data can be obtained at minimal cost through accurate record keeping and frequent calibration of pressure gauges, or through the purchase of flow meters connected to wireless data loggers. Approximate costs range around \$400 per field per year for the flow meter, logger, and wireless data plan.

For further information on SIMS or CropManage irrigation tools, please contact:

Forrest Melton

Senior Research Scientist

NASA Ames Research Center

Cooperative for Research in Earth Science & Technology (ARC-CREST)

California State University, Monterey Bay



Submitted by staff
at 11/17/14th Board Mtg.
Item 15

November 12, 2014

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MPWMD

Mayor:
CHUCK DELLA SALA

Councilmembers:
LIBBY DOWNEY
ALAN HAFFA
NANCY SELFRIDGE
FRANK SOLLECITO

City Manager:
MICHAEL MCCARTHY

Mr. David Potter, Chair
Monterey Peninsula Water Management District
P.O. Box 85
Monterey, CA 93942-0085

Subject: Outdoor Seating & Water Credits

Dear David,

On behalf of the City of Monterey, I would like to request your support in opposing the proposed modifications to the Water District's rules and regulations related to outdoor seating.

As you know, even though we are fortunate to live in a temperate climate, there are only a limited number of days and evenings when it is actually comfortable to sit and socialize outdoors.

Staff has conducted a number of unofficial surveys, and believes that the vast majority of eating and drinking establishments that add outdoor seating areas do not see a significant or even notable increase in their number of customers. Rather, when persons decide to go out to a restaurant or other establishment, it is the weather that determines whether they sit inside or outside. The City does not believe that persons go out simply because a business offers outdoor seating, but it may help them decide between a business with outdoor seating and one without.

It is the City's opinion that outdoor seating does not result in a tangible increase in the number of customers to the eating and/or drinking establishment.

If the MPWMD Board decides to modify the existing rules relating to outdoor seating, the City strongly opposes any process that would not "grandfather" existing outdoor seating areas or those with a pending building encroachment permit. All outdoor seating area improvements are the financial responsibility of the business owner. In the downtown area, the costs associated with the removal of on-street parking spaces, the preparation of engineered drawings and the physical improvements needed to support the seating areas cost the business owner thousands of dollars. If a water permit was required for the outdoor seating areas, because these sites do not have excess water credits to cover the outdoor seats they would have to abandon the outdoor seating area, remove interior seats, or a combination of the two. This would place an undue financial burden on those businesses that have in good faith followed all of the current rules and regulations of the City, the County Health Department and Water District.

It is also important to note that these outdoor seating areas have a positive economic impact on the surrounding businesses and the immediate commercial neighborhood. Bringing more people outdoors adds a new vitality to the outdoor shopping experience. People are more comfortable window shopping and visiting new businesses when there is more outdoor pedestrian activity. While the economy continues to improve incrementally, adopting insurmountable obstacles in the form of new water credit rules for outdoor seating will result in negative economic impacts to the neighbors of those businesses with outdoor seating, as well as those businesses that are interested in adding outdoor seating.

As you are aware, the City's support of outdoor seating areas has been roundly applauded by the public, the business community and the local media for both the City of Monterey and the City of Pacific Grove.

In summary, the City of Monterey has and will continue to be in support of those rules and regulations that help conserve the limited amount of water resources on the Monterey Peninsula. However, the City of Monterey believes that these rules and regulations must be based on facts and evidence, and the perception that outdoor seating for eating and drinking establishments increases water consumption by any measurable factor has not been established. To do otherwise would place an undue and potentially fatal burden on those businesses that have already established outdoor seating areas at great cost.

Sincerely,

A handwritten signature in black ink, appearing to read "Chuck Della Sala". The signature is written in a cursive, flowing style.

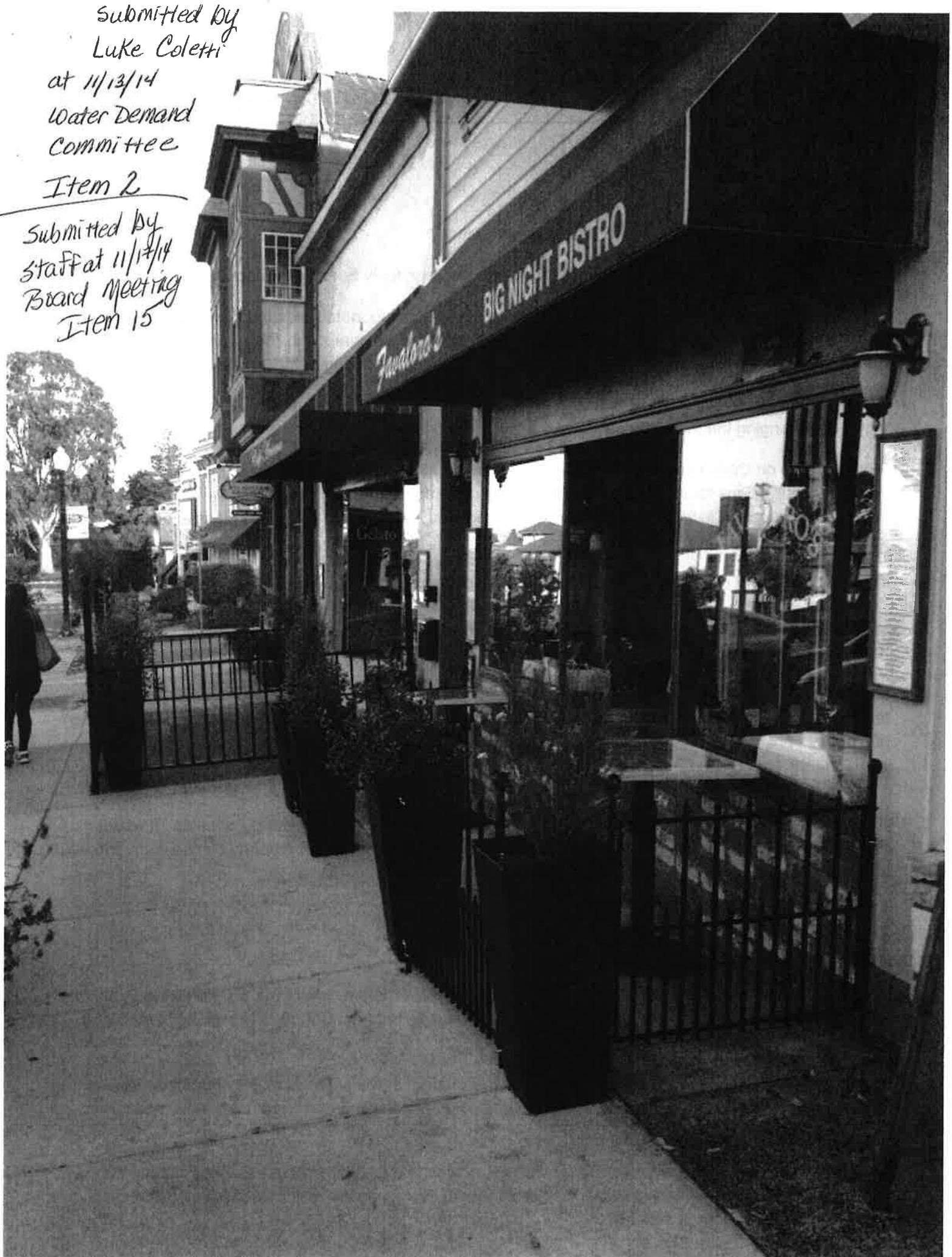
Mayor Chuck Della Sala
City of Monterey

Submitted by
Luke Coletti


at 11/13/14
Water Demand
Committee

Item 2

Submitted by
staff at 11/17/14
Board Meeting
Item 15



Indoors, or out? In Monterey, outdoor dining on the rise

 [montereyherald.com/news/ci_26833704/indoors-or-out-monterey-outdoor-dining-rise](https://www.montereyherald.com/news/ci_26833704/indoors-or-out-monterey-outdoor-dining-rise)

By Phillip Molnar

pmolnar@montereyherald.com @PhillipMolnar on Twitter

MONTEREY >> Outdoor seating is no longer just for snooty European cities.

The city of Monterey this month approved two more applications for outdoor seating, and two more are in the pipeline. Those projects will join several sidewalk seating areas already in place, putting more life on the street and, hopefully, causing visitors to pause and think about dining at those establishments.

"We're excited about all of them," said Rick Johnson of the Old Monterey Business Association. "In many ways, it is changing the mood of downtown."

Montrio Bistro on Calle Principal and the not-yet-opened Lalla Fish on Cannery Row got the council's approval. Applications for Wine from the Heart on the Alvarado Mall and Gianni's in New Monterey have also put in requests. Cibo Ristorante at Alvarado Street and Del Monte Avenue also plans to add outdoor seating.

They will join recent outdoor additions like MYO Frozen Yogurt at the south end of Alvarado Street, Caffè Trieste and Alvarado Street Brewery and Grill. Other downtown establishments had some sort of outdoor seating before it was in vogue, including The Crown and Anchor, Mucky Duck, Pino's Italian Cafe and Koko's Cafe.

Monterey senior planner Christine Hopper said Trieste sought outdoor seats in November 2013, based on the vision of architect Henry Ruhnke of Wald Ruhnke & Dost Architects, and seemed to kick off something of a trend.

"They were the first ones," she said.

She said when restaurants use parking spaces to create seating areas or "parklets," such as Trieste, it requires an architectural review and an encroachment permit. They can cost property owners from \$50,000 to \$70,000, she said.

Advertisement

Pacific Grove City Council also approved its own Parklet Pilot Program, where the city will pay \$15,000 for each approved project if traffic-related issues arise. Happy Girl Kitchen, Cafe Ariana and Big Night Bistro have added outdoor seats.

There is at least some mild resistance to the growth of outdoor seating. The Monterey Peninsula Water Management District plans to send out a letter Friday to remind seating-approved restaurants that more seats do not mean more water.

An official there said the district wants to remind restaurants that the state is in a drought. Restaurants' water allocation, and permits, are based on the number of seats, and the district is concerned that seating is being treated in a unregulated fashion.

Hopper sees things differently.

"Currently, it doesn't require additional water to have outdoor seating," she said. "If it is a nice day, most people are going to sit outside. If it is poor day, they are not going to sit outside."

Moe Ammar, president of the Pacific Grove Chamber of Commerce, said restaurants are a vital part of the city and already have a tough time with low profit margins.

"Restaurants need every piece of support we can give 'em," he said. "As far as I'm concerned, the water district should just stay out of it."

Hooper said there is no set Monterey ordinance limiting outdoor seating but the city may slow down after its recent seven permits.

"I know that the City Council doesn't want to lose all parking on Alvarado Street, so this may be it for a while to see how it goes," she said.

Phillip Molnar can be reached at 831-726-4361.

Submitted by staff
at 11/17/14 Board Meeting
November 15, 2014 Item 15

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MPWMD

Chair Dave Potter and Directors of the Board
Monterey Peninsula Water Management District
5 Harris Court, Building D
Monterey, CA 93940

**RE: Item #15 Consider Adoption of Policy on Outdoor Restaurant Seating
Continued to December 12, 2014**

Dear Chair Potter and Directors:

On January 17, 2014, Governor Jerry Brown declared a drought state of emergency. In his proclamation he ordered a statewide water conservation campaign encouraging personal action to reduce water usage, calling for Californians to reduce their water use by 20%. The Governor did not make a distinction between residential and commercial use; it was all inclusive.

In October of this year, the MPWMD launched a new campaign, "Save Water, Go Blue" which also calls on both residents and commercial to reduce their water consumption. An article in the Herald (10/14/2014) stated that district residents average just below 60 gallons per person per day. As a residential water user I am being asked to conserve more and more. There has to be equity for all in this drought state of emergency.

Water permits for restaurants are issued based on a certain number of seats. As stated and I agree with, whatever combination of indoor vs. outdoor seating that an establishment wants to use is up to them; however, the specific number of seats they are permitted should remain the same.

In my hometown of Pacific Grove the city is ripping up 10,000 square feet of turf at our beautiful Lovers Point Park to reduce water use. Electeds on the Peninsula are attempting to get the implementation of the CDO pushed out. The Governor has declared California a drought state of emergency. One of your legislative functions is to promote water conservation.

Therefore, I encourage you to follow rules already in place. It is imperative that we continue to demonstrate consistent efforts with water conservation. Collectively we have done a great job and to ignore your own procedures and allow for additional seating (outdoor) beyond what is permitted at this critical time would compromise what has already been achieved.

Sincerely,

Carmelita Garcia

Carmelita Garcia, Resident of Pacific Grove



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at 11/17/14 Board Mtg.
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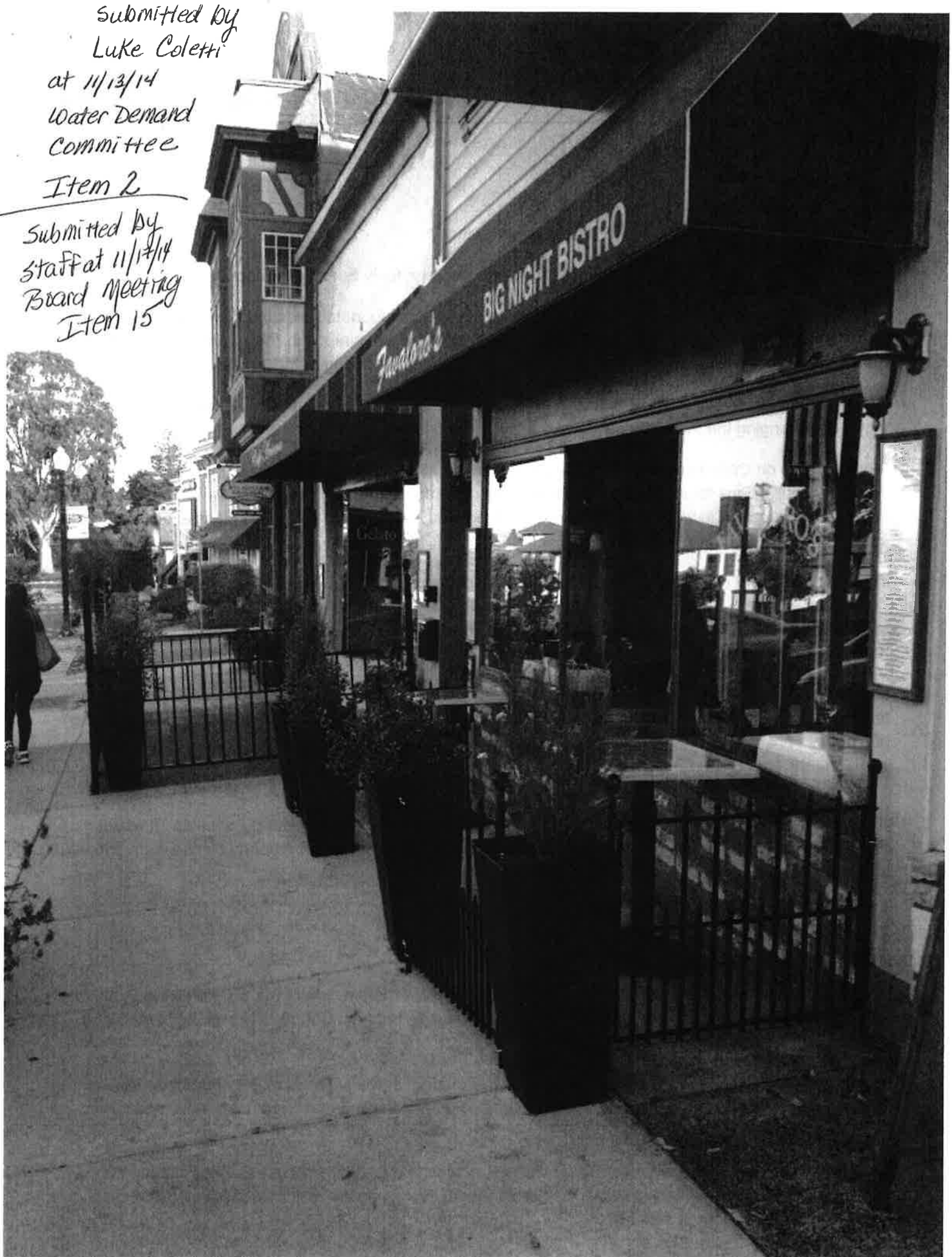
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"Restaurants need every piece of support we can give 'em," he said. "As far as I'm concerned, the water district should just stay out of it."

Hooper said there is no set Monterey ordinance limiting outdoor seating but the city may slow down after its recent seven permits.

"I know that the City Council doesn't want to lose all parking on Alvarado Street, so this may be it for a while to see how it goes," she said.

Phillip Molnar can be reached at 831-726-4361.



Submitted by staff
at 11/17/14 Board Meeting
Item 15

CITY OF PACIFIC GROVE
COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT
300 Forest Avenue • Pacific Grove, California 93950

November 12, 2014

RECEIVED

Honorable Dave Potter, Chair, and Members of the Board
Monterey Peninsula Water Management District
5 Harris Court, Building G
Monterey, California 93942-0085

NOV 13 2014

MPWMD

Re: Water Permit Requirements for Outdoor Seating

Dear Chair Potter:

On November 13th the Monterey Peninsula Water Management District (MPWMD) Technical Advisory Committee and Water Demand Committee will develop and recommend to the Board a policy for outdoor seating. The MPWMD Board is scheduled to review recommendations and adopt a policy on November 17th. On behalf of the City of Pacific Grove, I would like to express our concern to the proposed modifications to the Water District's rules and regulations related to outdoor seating.

As your agenda item staff report notes, there are still many questions to be answered regarding issuing Water Permits for outdoor seating. Specifically:

- Does outdoor seating increase occupancy, or is it simply a matter of seat selection based on weather?
- If a patron has made the decision to dine out somewhere on the Peninsula, is the choice of seat selection irrelevant – i.e. is the water usage neutral in the whole, or is it additive?
- Does outdoor seating truly represent a measureable metric when outdoor patronage is largely governed by temperature and weather conditions?

Additionally, staff has the following questions:

- What effects does outdoor seating have on water use and consumption?
- What is the quantitative increase of outdoor dining days considering recent technological improvements?
- How does increased patronage related to outdoor seating differ from increased patronage due to other business practices such as increased hours, 2 for 1 coupons, early bird specials and gift certificates?

These questions cannot be answered through discussion alone. Had this been sufficient, this matter would have been resolved through discussions that have taken place over the last several years. Anecdotally, staff recognizes that there is a potential for increases in the number of patrons with the addition of outdoor dining, and this may correspond to an increase in water use. However, this assumption has so far not been substantiated for the Monterey Peninsula. Studies

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on how outdoor seating has affected patronage, both absolutely and relatively, and water use, will be required to make an informed decision on the issuance of Water Permits. This is the only equitable method to place an additional financial burden on our businesses.

If the MPWMD Board decides to modify the existing rules relating to outdoor seating, the City opposes any policy that would not "grandfather" existing outdoor seating areas or those with a *pending building encroachment permit*. All outdoor seating area improvements are the financial responsibility of the business owner. If a water permit is required for the outdoor seating areas, sites that do not have excess water credits to cover the outdoor seats would have to abandon the outdoor seating area and/or remove interior seats. This would place an undue financial burden on those businesses that have in good faith followed all of the current rules and regulations of the City, the County Health Department and Water District.

The City of Pacific Grove has and will continue to be in support of those rules and regulations that help conserve the limited amount of water resources on the Monterey Peninsula. However, these rules and regulations should be substantiated, and effects that outdoor seating have on water use or water consumption have not been established.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Brodeur". The signature is written in a cursive, flowing style.

Mark Brodeur
Community and Economic Development Director