



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

**Water Demand Committee Members:**  
*Molly Evans, Chair*  
*Andy Clarke*  
*Jeanne Byrne*

**Alternate:**  
*Brenda Lewis*

**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](http://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**  
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Tuesday, April 25, 2017, 3 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 February 13, 2017 Committee Meeting Minutes
2. Consider Rebate for a Laundry Water Recycling System at the Asilomar Conference Grounds

**Set Next Meeting Date**

**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. Requests should be sent by 5 pm on Monday, April 24, 2017, 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 FEBRUARY 13, 2017 COMMITTEE MEETING MINUTES**

**Meeting Date:** April 25, 2017

**From:** David J. Stoldt,  
General Manager

**Prepared By:** Arlene Tavani

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

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**SUMMARY:** Attached as **Exhibit 1-A** are draft minutes of the February 13, 2017 Water Demand committee meetings.

**RECOMMENDATION:** The committee should adopt the minutes by motion.

**EXHIBIT**

**1-A** Draft Minutes of the February 13, 2017 Water Demand Committee Meeting



**EXHIBIT 1-A**

**DRAFT MINUTES**  
**Water Demand Committee of the**  
**Monterey Peninsula Water Management District**  
*February 13, 2017*

**Call to Order**

The meeting was called to order at 3:35 pm in the MPWMD conference room.

**Committee members present:** Molly Evans, Chair  
Jeanne Byrne  
Andy Clarke

**Committee members absent:** None

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

**District Counsel present:** David Laredo

**Comments from the Public:** No comments.

**Action Items**

- 1. Consider Adoption of January 24, 2017 Committee Meeting Minutes**  
On a motion by Byrne and second of Clarke, minutes of the January 24, 2017 committee meeting were adopted unanimously on a vote of 3 – 0 by Byrne, Clarke and Evans.
  
- 2. Discuss and Provide Direction on 2017 Clean-Up Ordinance**  
The committee reviewed the document titled 2017 Clean Up Ordinance Concepts for Discussion, and provided comments to staff for incorporation into a draft ordinance. (a) The term ON SITE should be changed to on-Site. (b) The word permit should be capitalized when it refers to a specific type of permit that is defined in the Rules and Regulations. (c) Add to Rule 23-B(C) the phrase “unless a specific fire service line is installed on the property.” (d) A second rebate could be issued for replacement of a fixture if 10 years has elapsed since the initial retrofit occurred, and the new fixture has a higher efficiency than the fixture it is to replace. Staff will conduct research to determine if washing machines are designated as efficient or ultra-efficient. (e) Agreed with issuance of a \$100 rebate per unit for installation of individual meters in multi-family residential units. (f) Agreed that the rebate for high-efficiency and ultra-high-efficiency toilets should be reduced to \$75 and \$125, respectively. (g) Agreed that a rebate should be issued for commercial users that retrofit ultra-low-flush toilets to high efficiency toilets. (h) Proposed Rule 143.M.2 – remove the words “current and future” from line

two. Also, staff will develop an informational brochure that will be posted to the District's website. (i) Before a transfer of ownership is processed, an inspection of the property should be completed.

**3. Provide Direction to Staff on Businesses Not Associated with a Building**

The committee reached no conclusion on how to address this issue but did suggest the following. (a) An applicant for this type of water use should specify the source of water for the business. (b) If a business agrees to allow a mobile use to utilize its facilities, the business should be able to show that it has excess water capacity to share.

**Discussion Item**

**4. Update on Pressure Reduction Program**

District staff will continue to map pressure readings, and may contract with someone to conduct pressure readings in order to identify target areas for an outreach program.

**Set Next Meeting Date:** March 22, 2017 at 3:30 pm.

**Adjournment**

The meeting was adjourned at 4:50 pm.

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## WATER DEMAND COMMITTEE

### ITEM: ACTION ITEM

#### 2. CONSIDER REBATE FOR A LAUNDRY WATER RECYCLING SYSTEM AT THE ASILOMAR CONFERENCE GROUNDS

**Meeting Date:** April 25, 2017                      **Budgeted:** Yes

**From:** David J. Stoldt,                      **Program/** 4-2-4-C  
            General Manager                      **Line Item No.:**

**Prepared By:** Stephanie Kister                      **Cost Estimate:** \$20,000.00

**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 15378.

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**SUMMARY:** District Rule 141, Water Conservation Rebates, states that Non-Residential Rebates for technology not listed in the rule shall be considered by the Water Demand Committee with a recommendation made to the Board. If recommended, the Board would consider this rebate at the May Board meeting.

WaterCity is the owner and operator of a laundry water recycling system installed at the Asilomar Conference Grounds in Pacific Grove. The AquaRecycle system (Model: EMI 10GPM) has a 10 year life span and the cost of the equipment was \$60,000.00. This system uses fully automated water purification and treatment processes to provide clean, disinfected and pre-heated water to the washing machines. The system began operating on May 18, 2016 and has been metered prior to and after installation. The project has resulted in a documented 71 percent reduction in laundry water use for the conference center. Actual average monthly savings have been 130,000 gallons per month (**Exhibit 2-A**). The lifetime water savings (10 years) is estimated to be 47.8 Acre-feet. WaterCity is requesting a rebate in the amount of \$19,800.00 for the system (**Exhibit 2-B**). Staff is proposing a rebate of \$20,000 for the system. The lifetime cost/benefit of the equipment is \$418.00 per acre foot, considerably lower than many of the existing rebates.

This amount would be funded by the CAW/MPWMD rebate fund in the current budget. As of late March 2017, \$372,825.80 remained available in the rebate fund. The 3-year rebate fund was \$1.6 million when established in 2015. MPWMD is on track to expend the full rebate fund with additional public outreach. Support of rebates for significant water saving retrofits such as the project completed by WaterCity is cost-effective, especially if a rebate incentivizes others to complete similar actions. Rebates such as this should be encouraged as we reach saturation on other rebates.

Aramark and the State Parks are supporting the rebate for this project and will be authorizing a rebate to WaterCity (MPWMD Rule 141 requires the property owner to authorize a rebate for a

tenant). They are fully aware that if a Water Use Credit for the retrofit is used in the future, they will be required to repay the rebate amount prior to using the credit.

**RECOMMENDATION:** Staff recommends the committee support a rebate of \$20,000.00 for WaterCity and recommend to the Board that the Laundry Water Recycling rebate be granted for the WaterCity project.

**EXHIBIT**

**2-A** Asilomar Rebate Letter

**2-B** Metered Water Savings



Mrs. Stephanie Kister  
Monterey Peninsula Water Management District  
5 Harris Court, Building G  
Monterey, CA 93940

April 13, 2017

Re: Asilomar Conference Grounds Water Rebate

Dear Stephanie,

WaterCity, the owner and operator of the recently installed laundry water recycling equipment at Asilomar Conference Grounds, is requesting a water rebate for the installation and operation of this water saving technology. The equipment installed was purchased by WaterCity from AquaRecycle, LLC, a standard laundry water recycling equipment manufacturer. The equipment details and pricing can be found below in Appendix A.

The system was certified commercially operational as of May 18, 2016 and has been closely monitored since then. Prior to the installation, the Asilomar Conference Grounds was using between 130,000 - 210,000 gallons of water per month in their laundry operations (depending on the season and their occupancy). Since the laundry water recycling system was installed, WaterCity has consistently reduced their laundry water usage by an average of about 71%. On average, this equates to saving Asilomar, MPWMD, and the community about 130,000 gallons of water per month.

Water recycling at large commercial laundries offers an exceptional addition to the conservation opportunities in water efficient appliances already mandated by MPWMD. Financial incentives to encourage this end customer and others to adopt this technology are requested. Based on the current non-residential rebates offered at the MPWMD, WaterCity suggests a 33% rebate for this and future installations. This would equate to a rebate for the Asilomar Conference Grounds installation in the amount of \$19,800. This is based on currently offered rebate percentages of average appliance costs given by the MPWMD (see Appendix B for details on the assumptions). Based on 10 months of actual water savings data, this level of rebate would be about \$9.73 per CCF saved in the first year of operation, which you can compare to other appliance rebates per annual CCF saved in Exhibit B.

Please let me know if there is any additional information you require to process this request. If you have any questions, we would love to meet and explain how the rebate can help achieve greater water conservation for Monterey. We look forward to hearing from you soon.

Best,

A handwritten signature in black ink, appearing to read "W. Chase Warner", is written over a light grey rectangular background.

W. Chase Warner  
Business Operations Manager







Appendix A

Manufacturer	Model	Price (w/o installation, labor)
AquaRecycle, LLC	EMI 10 GPM	\$60,000

Appendix B

Appliance	Average Cost	Rebate	Rebate as a %	Water Saved/Yr (gal)	Rebate per annual CCF
High-efficiency toilet	\$375	\$100	27%	3,500	\$21.37
Pint urinal	\$350	\$250	71%	4,000	\$46.75
Waterless urinal	\$550	\$250	45%	35,000	\$5.34

Appendix C

Please see attached Excel sheets for water savings summary and daily raw data from water meter.

Appendix D

History

- 4/6/15 Initial correspondence with MPWMD regarding Asilomar water project
- 3/30/16 System shipped
- 4/4 to 5/17/16 System delivery, installation, testing, debug
- 5/18/16 Commercial Operation Signoff
- 6/3/16 Formal rebate submission
- 4/13/17 Revised rebate submission with meter reads

**EXHIBIT 2-B**

**Appendix C: Asilomar Recycle Summary**

Read Date	WaterCity Meter Reads		WaterCity measured usage for the period since last read			
	Recycled Meter	Fresh Meter	Recycled	Fresh	Total	% Savings
<b>5/18/2016</b>	13,667	4,059	-	-	-	
<b>6/30/2016</b>	243,776	54,620	230,109	50,561	280,670	82%
<b>7/31/2016</b>	417,552	87,883	173,776	33,263	207,039	84%
<b>8/31/2016</b>	593,820	98,961	176,268	11,078	187,346	94%
<b>9/30/2016</b>	725,493	109,762	131,673	10,801	142,474	92%
<b>10/31/2016</b>	834,126	170,878	108,633	61,116	169,749	64%
<b>11/30/2016</b>	948,742	206,819	114,616	36,001	150,617	76%
<b>12/30/2016</b>	1,058,276	250,993	109,534	44,174	153,708	71%
<b>1/31/2017</b>	1,170,512	279,089	112,236	28,096	140,332	80%
<b>2/28/2017</b>	1,216,175	317,470	45,663	38,381	84,044	54%
<b>3/27/2017</b>	1,319,452	352,230	103,277	34,760	138,037	75%
Usage from 5/18/16	<b>313</b>		1,305,785	348,171	1,653,956	79%
<b>Annualized Savings</b>	Gallons		1,522,721			
<b>Annualized Savings</b>	CCF		2036			
<b>Proposed rebate</b>			\$ 19,800			
<b>Proposed Rebate/CCF</b>			\$ 9.73			

Notes

The net savings of the system is the Recycled usage, measured in gallons. Recycled water is used for wash cycles.

Fresh water is used for rinse cycles, as well as to supplement recycled water for wash cycles when required.

System commercially operational on May 18th; before then 13,667 gallons were recycled during testing but are not counting these as savings

Fresh water meter was moved in early January timeframe to meter all fresh water use by the laundry equipment.

Typical systems run 65 to 75% recycle rate. We show 2017 to date about 71%.

**EXHIBIT 2-B**