



Water Efficiency Program Updates

Communications Committee

May 20, 2020



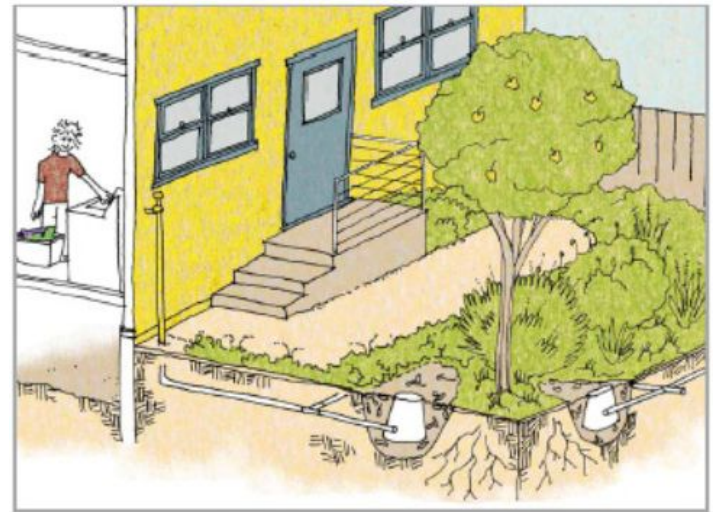
Outline

- Water Efficiency Program Updates
 - New Incentive Programs
 - AMI Installations and Feasibility Study
- Current Water Demand Use Patterns
- Update on ‘Making Conservation a California Way of Life’ legislation

Laundry to Landscape Graywater Kits

MMWD funding training workshops through the Urban Farmer Store in Mill Valley with subsidized Graywater Kits for District customers

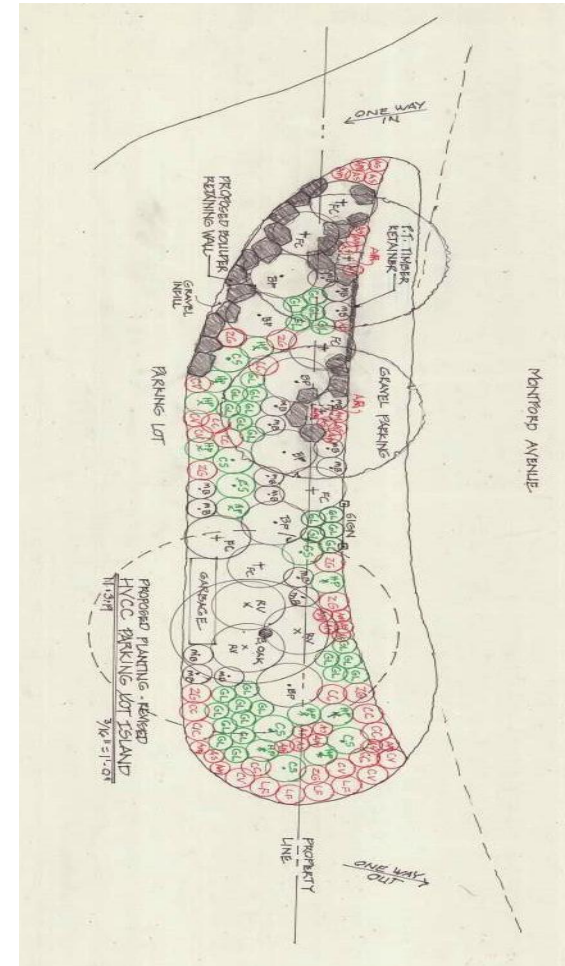
- First class scheduled for Summer 2020
- Loaner Installation Tool Kits
- Modeled after the successful SFPUC Program



Watershed Approach to Landscaping (WAL) Garden Grant Program

Offering \$5,000 to community organizations to encourage model gardens demonstrating the WAL practices.

- First formal applicant-
Homestead Valley
Community Center
- Additional inquires from
Corte Madera Fire Station



Rain Barrel and Cistern Rebate

Rebate available for installing
rainwater harvesting systems

- \$0.50/gallon
- Program launched in April
- Marketing began with May
rain

Posts



Marin Municipal Water District

Published by Jeanne Mariani-Belding [7] · May 9 at 11:26 AM · 🌐

It looks like rain is on the way early next week. Making the most of our rainfall helps save water, and carry us through drier periods. Marin Water offers rebates on rain collection barrels and cisterns. Capturing and reusing rainfall to water plants and landscaping saves water and reduces runoff. Every inch of rain collected over a 100-square-foot roof area fills a 60 gallon rain barrel. Save water, and save money. Learn more at www.marinwater.org/163/Rebates #WaterWise





Landscape Your Lawn

Two program options for removing an existing lawn and replacing it with a low water use planted landscape.

- Option 1: Rebate of \$1/square foot of lawn replaced
- Option 2: Free sheet mulch material (cardboard, compost, mulch) and delivery, plus a free irrigation conversion kit (minimum of 500 sq. ft. of turf must be converted)



Water-Saving Landscapes

Replace your thirsty lawn

Replace your lawn with water-saving landscaping. Let us provide you with either a \$1 per square-foot rebate or free supplies to help you convert your lawn into beautiful, water-wise landscaping.

Smart Irrigation Controller Programs

WaterSense Certified Irrigation Controller Rebate: District issued rebate for certified controllers.

- \$100 rebate per controller
- Launched May 15th

Under development Regional Rachio Program: Point of Purchase from the manufacture for WiFi irrigation controller using smart home technology.



AMI Update

Phase II: 2019-2020

- 1,980 meters funded
- 1,280 installed
- \$781,279 Grant Funding
- Deadline September 2020

Phase III: 2020

- 860 meters funded
- Installation began in early May to meet grant deadline

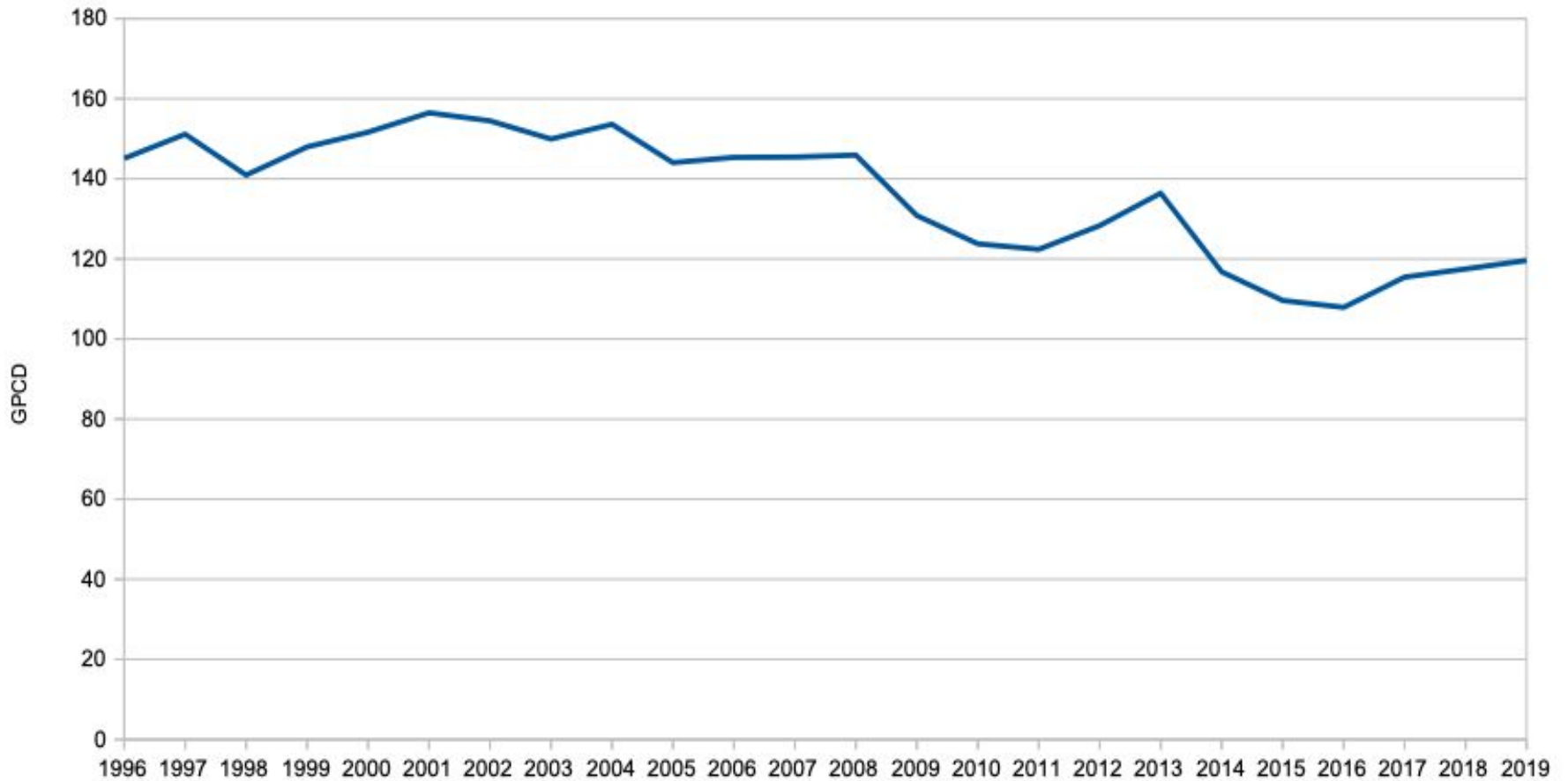
Feasibility Study underway to evaluate long term approach to district wide implementation.





Current Water Demand Use Patterns

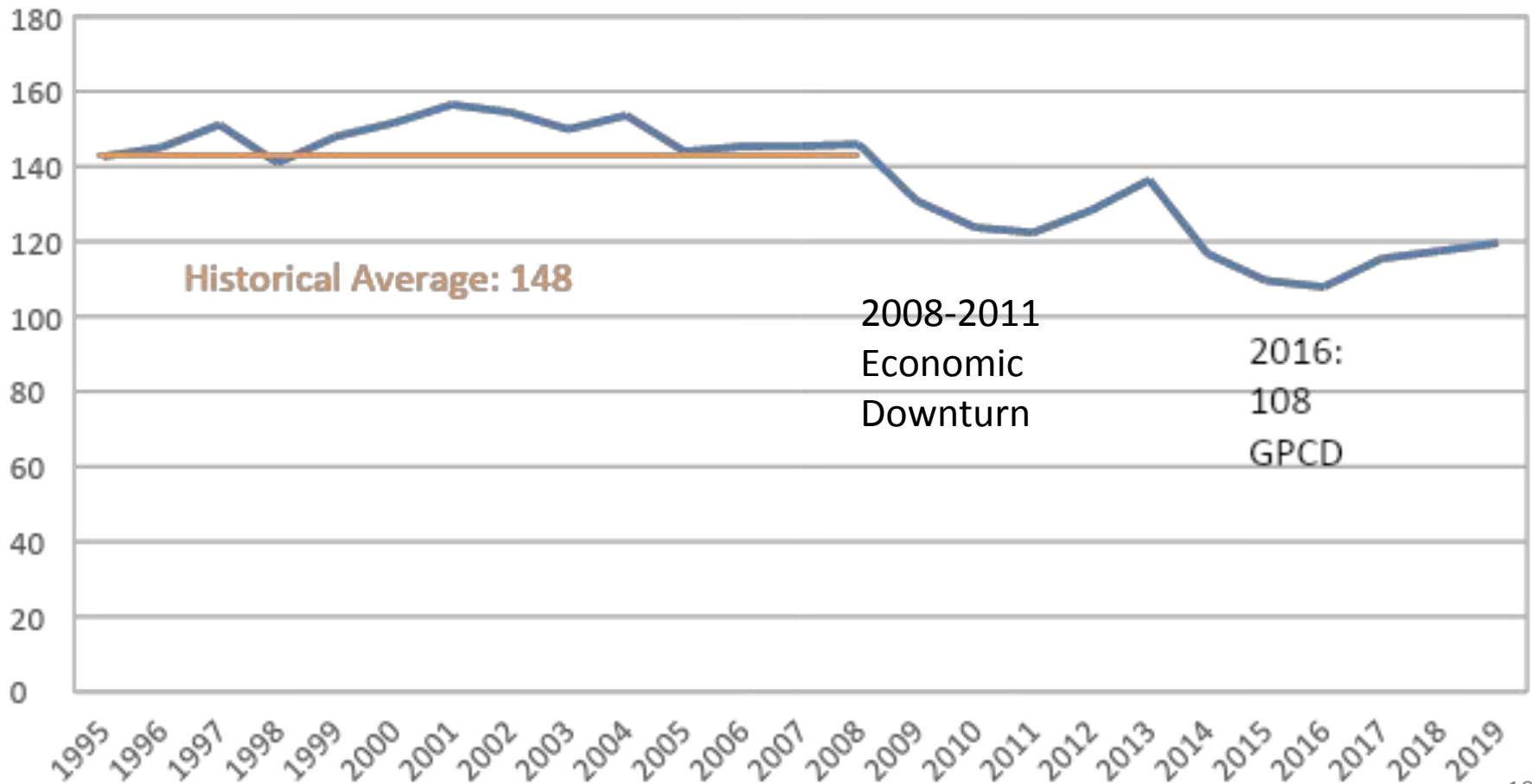
MMWD GPCD 1995-2019





Current Water Demand Use Patterns

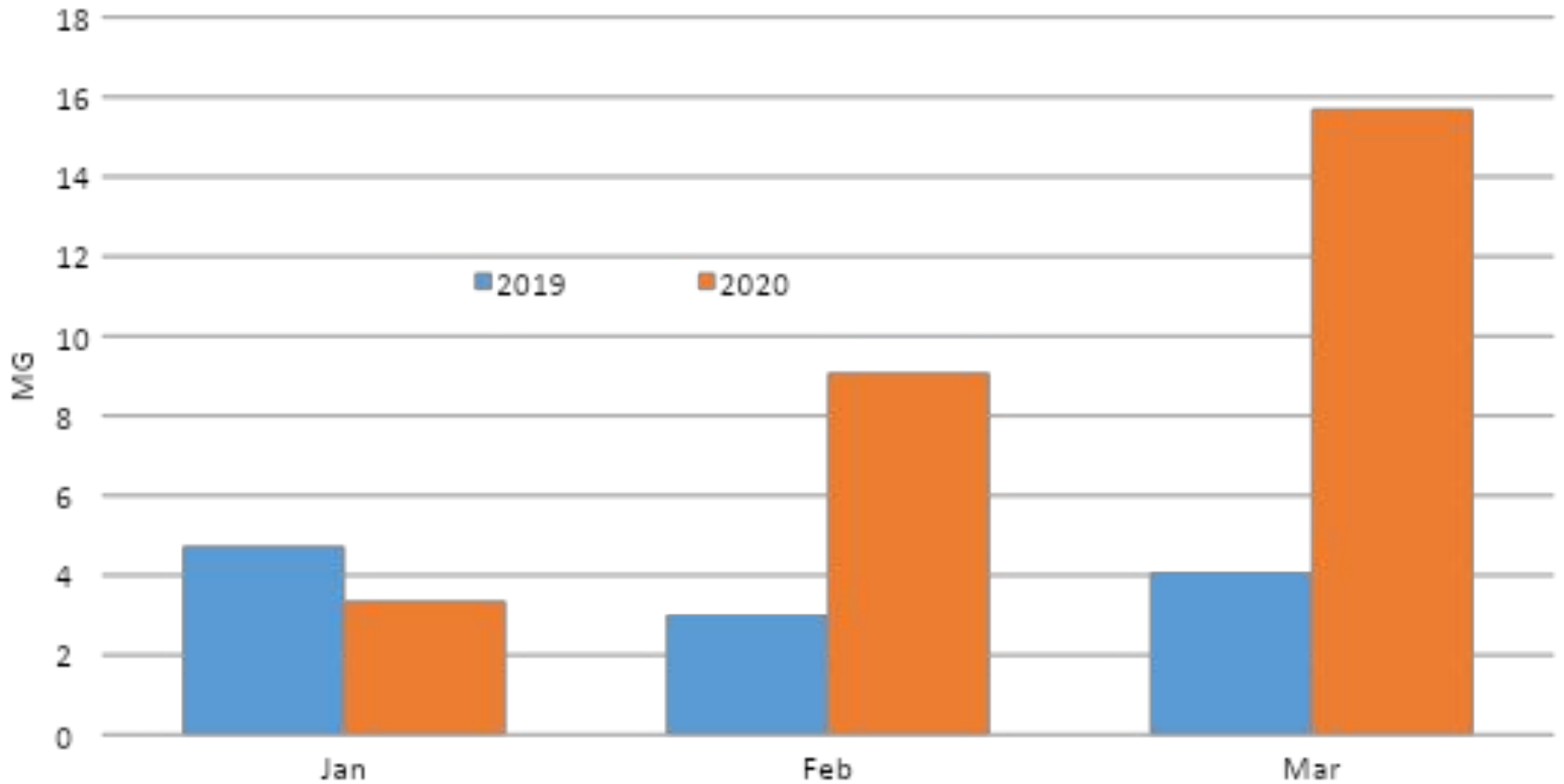
Per Capita Water Use
1995-2019





Early Spring Irrigation

AMI - Dedicated Irrigation Meters



Making Conservation a California Way of Life Legislation

Focus:

- Long-term water use efficiency
- Climate change/drought resilience

Primary Goals:

1. Use water more wisely
 - Water budget-based targets
2. Eliminate water waste
 - Water distribution system loss standard
3. Strengthen local drought resilience
 - Emergency declaration to be based on local shortages
 - Drought resiliency and response planning and reporting
4. Improve agricultural water use efficiency & drought planning





Budget-based Water Use Objective

Aggregated target calculated by water provider

- Compliance not assessed based on individual customer use or single category





INDOOR USE *

The standard for indoor residential water use is **55 gallons** per person per day multiplied by the population of the service area.



*** State Water Board and Department of Water Resources (DWR) required to conduct studies and investigations and develop recommendations to Legislature by Jan 1, 2021**

An illustration of a pop-up irrigation system. A dark grey cylindrical riser pipe is surrounded by green grass. The riser pipe is topped with a large, fan-shaped array of green plastic mulch or filter fabric, which is held up by numerous thin, light blue vertical spikes. The entire assembly is set against a light blue background.

OUTDOOR USE*

The standard for outdoor residential water use is based upon a community's **climate** and the **amount of landscaped area**.

DWR to develop recommendations for commercial, industrial and institutional landscapes served by dedicated irrigation meters by Oct 1, 2021.

*** State required to provide urban retailers with parcel-level residential landscape area data by Jan 2021.**



Landscape Area

- State Landscape Measurement Pilots
 - 2 agency pilots- Padre Dam and the City of Santa Rosa
 - 2 agency pilots- NMWD and Rancho
 - 10 agency phase 2 pilots
 - 17 agency phase 3 pilots
- Measured landscape area for single family residential
- 3 Landscape Classifications:
 - Irrigated
 - Irrigable, not irrigated
 - Not irrigable

‘Irrigated’ + “Irrigable, not irrigated” = Irrigable
- DWR to measure Landscape area for all 410 urban retail water suppliers in California



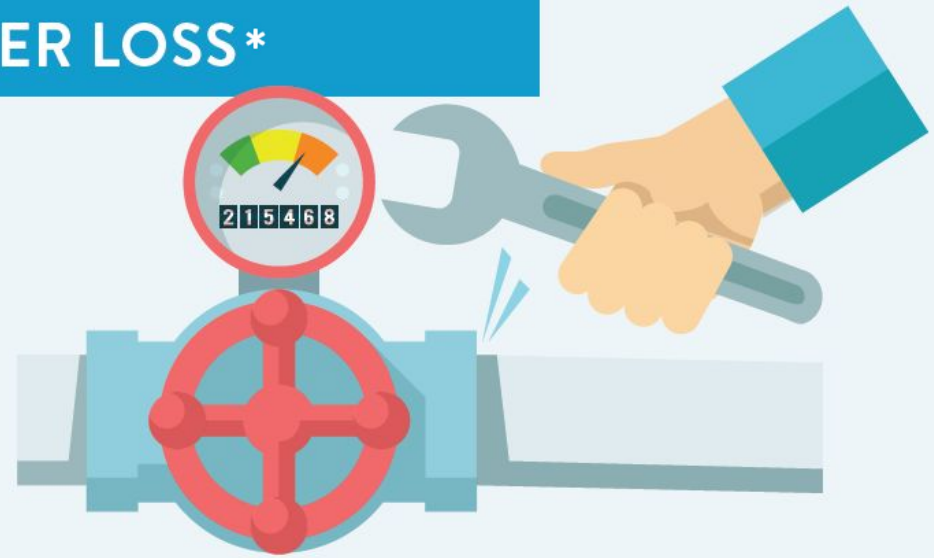
Residential Landscape Area Measurement Issues

- Irrigable vs. undeveloped lands classification
- Identification of residential dedicated irrigation accounts
- Areas irrigated outside parcel boundaries
- Matching residential parcel zoning classification with water billing classification
- Varying parcel zoning classifications



WATER LOSS*

The standard for water loss **due to leaks** in the water system pipes is still to be determined.



* Rulemaking in progress. Stakeholder meetings being held. State to adopt water loss standard by end of 2020.



Current Water Loss Proposal (May 13, 2020)

- Core components of *proposed* Water Loss Standard
 - Individual volumetric standards to meet water loss control as determined by SWRCB's Economic Model
 - Pressure and Asset Management
 - Data Quality
- Ongoing proposal refinements since 2018

Commercial, Industrial, Institutional (CII) Sector

DWR to develop performance measures

- State to conduct studies and develop recommendations by Oct. 1, 2021
- State to solicit broad public participation
 - CII water use classifications
 - Minimum thresholds for converting mixed to dedicated meters (or in lieu tech)
 - BMPs for water audits and water management plans

Mandatory Reporting

- Monthly water production, water use, and conservation efforts – adopted April 2020
- Annual Urban Water Use Objective compared to actual use – starts Nov 2023
- Annual Water Supply and Demand Assessment – by July of each year
- Urban Water Management Plan, with 5-year drought assessment – July 1, 2021





Efficiency Standards

TIMING

2018



Start
standard
development

2022



State adopts
standards, PMs,
and methods

2023



Suppliers
calculate
objectives

2027



All suppliers
reach
objectives



Questions