

# PALMDALE WATER DISTRICT

#### PUBLIC HEARING – OCTOBER 28, 2019

Presentation of Study Process and Recommended Rate Adjustments for CY 2020 - CY 2024



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## AGENDA

- Purpose of Study
- Water Today
- Process of Rate Study
- Revenue Requirements
- Recommended Rate Adjustments
- Customer Bill Impacts

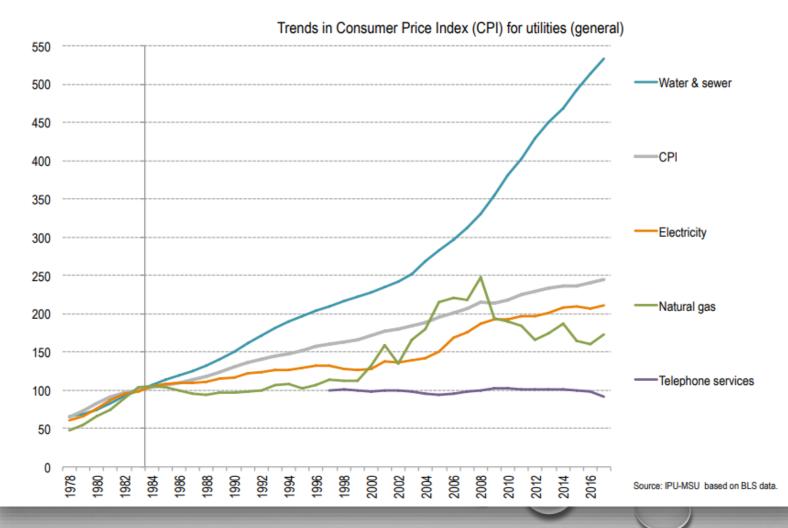


### **PURPOSE OF STUDY**

Establish water rates that achieve objectives of Revenue Stability Equitable Cost Recovery Rate Payer Affordability for PWD and its customers

## WATER TODAY

#### CPI trends for utilities (US)





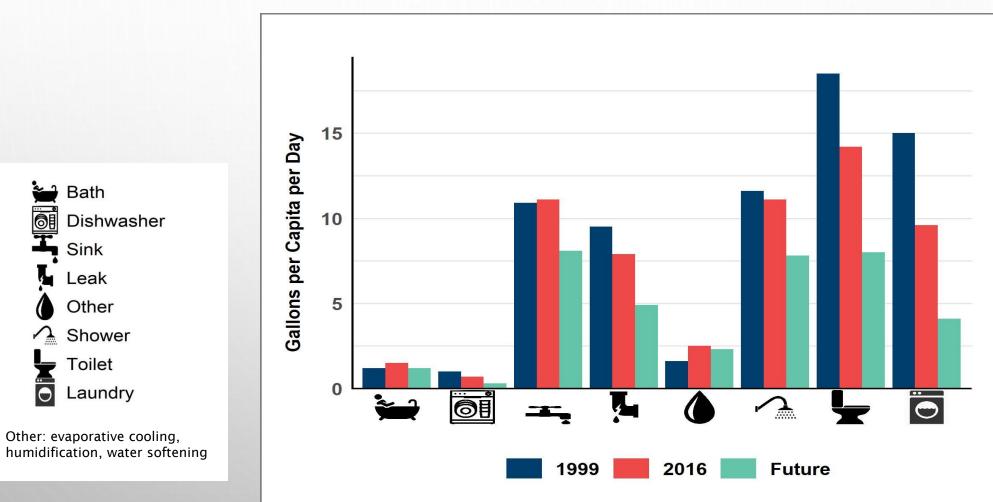
## WATER TODAY

Infrastructure reinvestment needs



# WATER TODAY

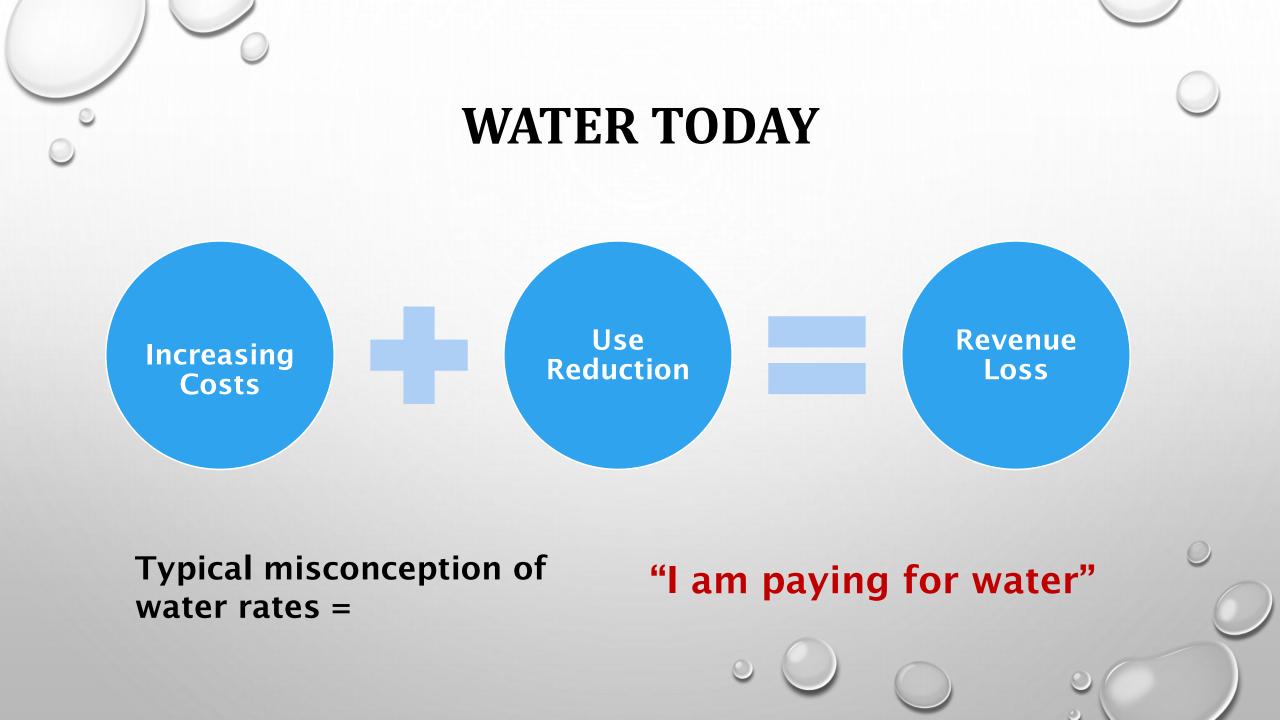
#### **Customer Water Use Reduction**

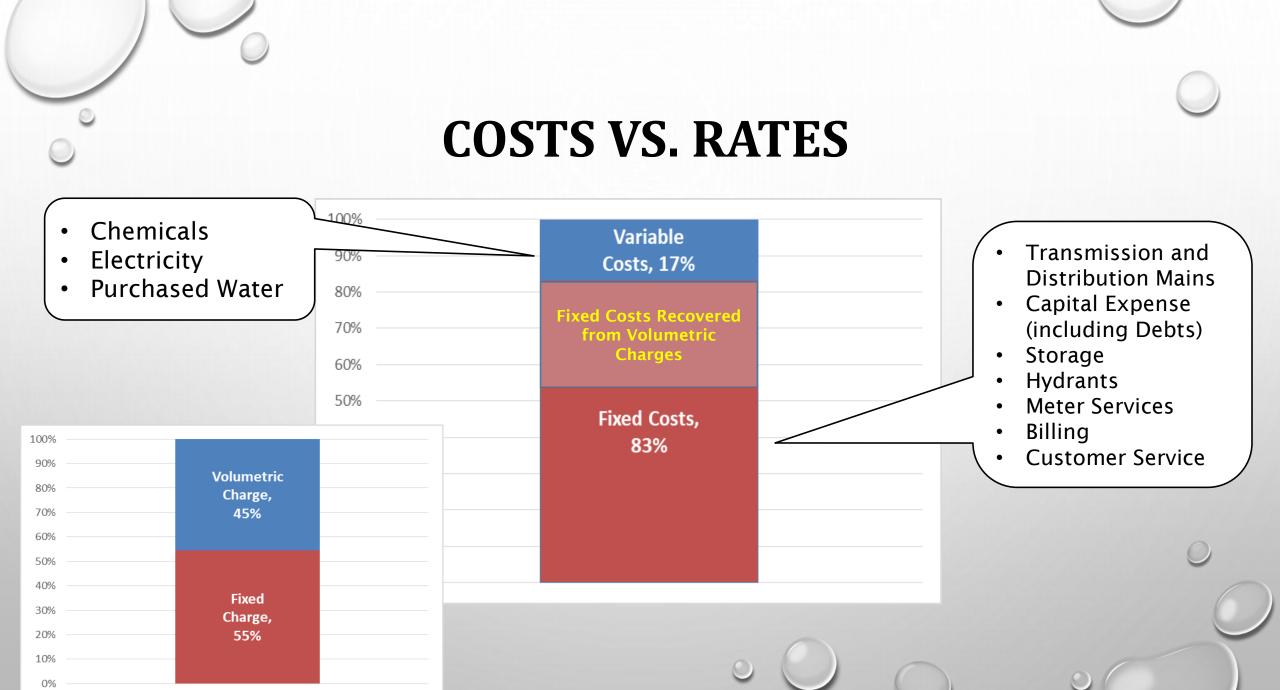


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Source: Residential End Uses of Water – Water Research Foundation

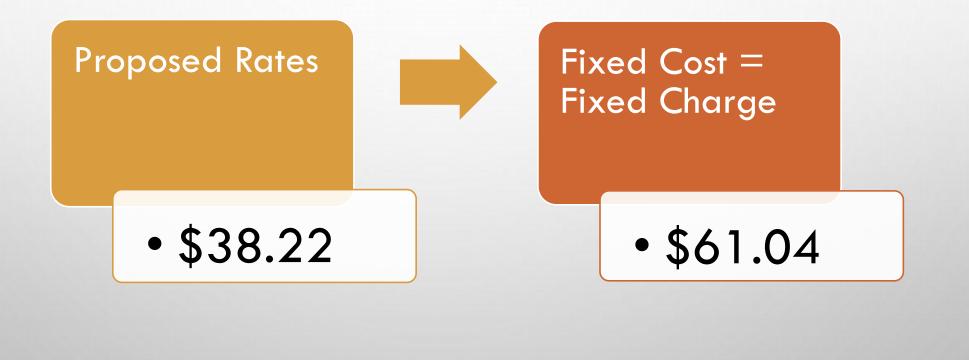
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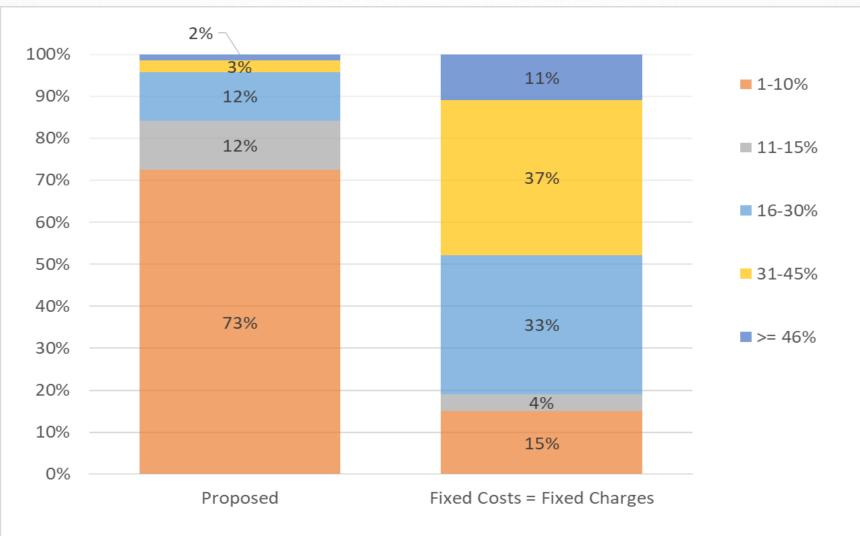


### **Revenue Stability**

#### Why don't we recover all the fixed costs from fixed charges?



#### AFFORDABILITY Bill Impacts

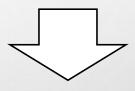


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#### **EQUITABILITY** Different Levels of Service Requirements

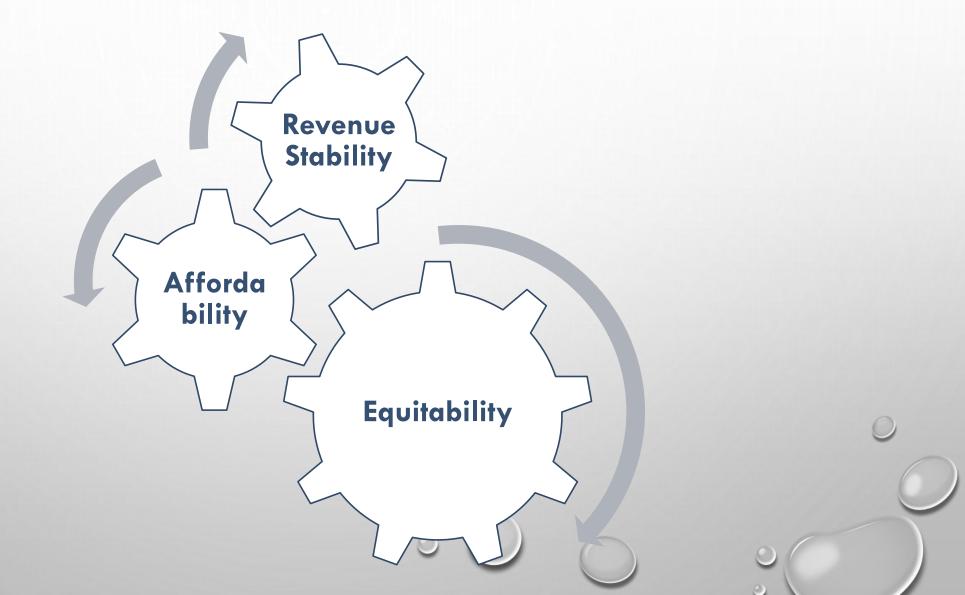
Sized for Max Use

Sized for Average Use Should a customer who uses 100 hcf of water pay for the same amount of fixed costs as a customer who uses 5 hcf a month?

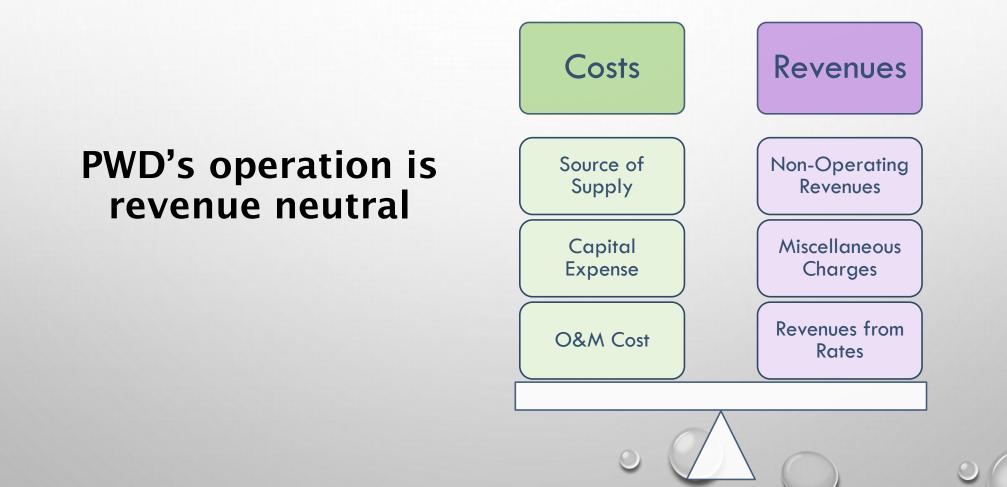


Some users' water usage pattern requires bigger system capacity

## **BALANCING ACT OF RATE DESIGN**

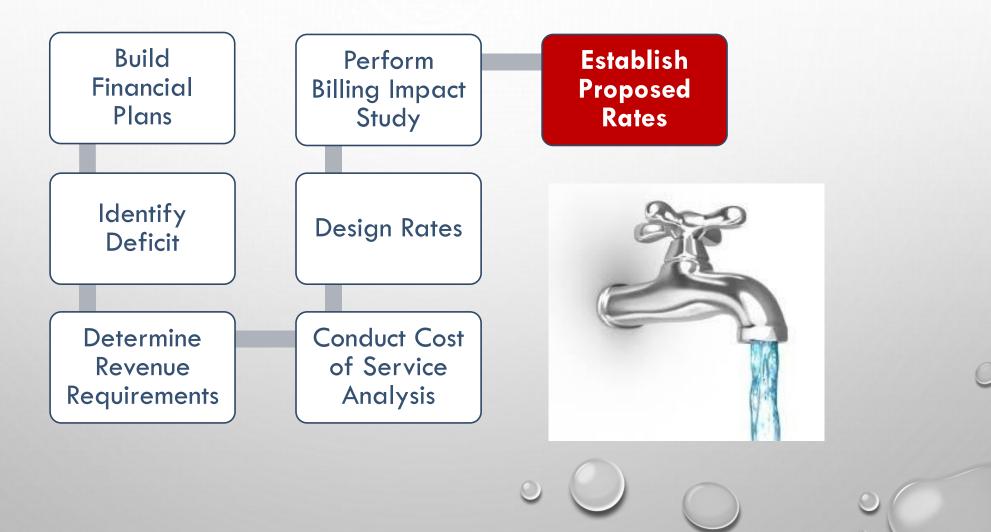


### **HOW RATES ARE SET**

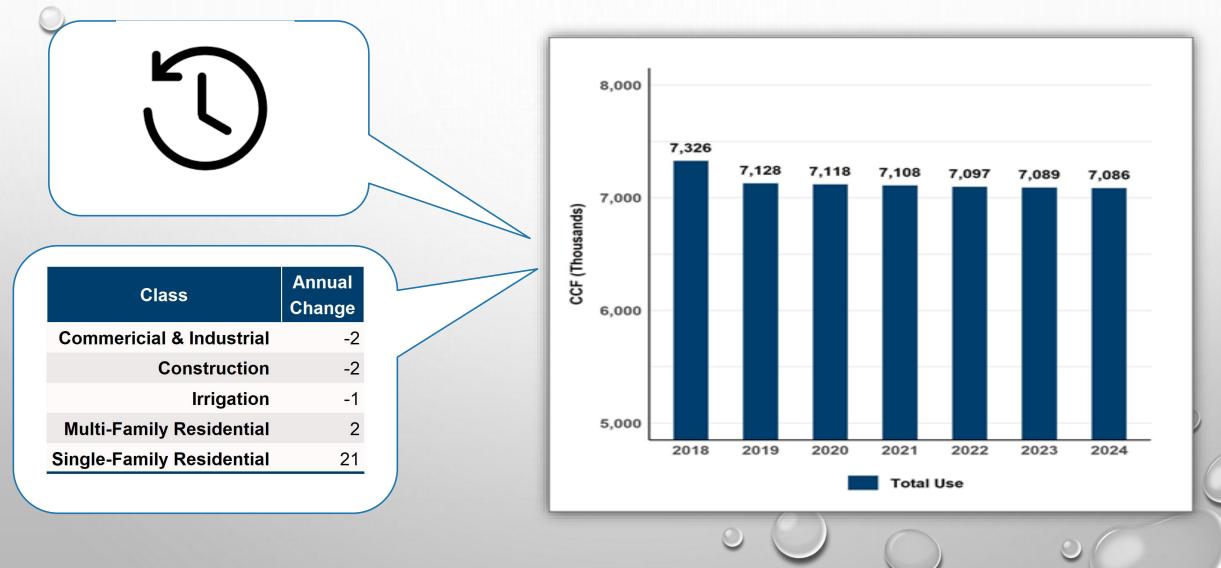


### **RATE STUDY PROCESS**

5-Yr Study Period: CY 2020 - CY 2024, Test Year: CY 2020



## **DEMAND PROJECTIONS**



# **REVENUE ANALYSIS**

Revenue Type	CY 2019	CY 2020	CY 2021	CY 2022	CY 2023	CY 2024
Revenues from rates	\$23.1	\$23.1	\$23.1	\$23.1	\$23.0	\$23.0
Other operating revenues	\$1.2	\$1.2	\$1.2	\$1.2	\$1.2	\$1.2
Non-operating revenues	\$2.9	\$2.9	\$2.9	\$3.0	\$3.0	\$3.1
Total	\$27.2	\$27.2	\$27.2	\$27.2	\$27.3	\$27.3



## **O&M EXPENSE**

	CY 2019	CY 2020	CY 2021	CY 2022	CY 2023	CY 2024
Total O&M Expense	\$21.8	\$23.1	\$23.8	\$24.6	\$25.3	\$26.1
% Annual Increase		5.8%	3.1%	3.1%	3.1%	3.2%

Expense Escalation Factors	CY 2019	CY 2020	CY 2021	CY 2022	CY 2023	CY 2024
Overall Inflation Rate:	2.4%	2.4%	2.4%	2.4%	2.4%	2.4%
Utility/Chemical Inflation Rate:	4.1%	4.1%	4.1%	4.1%	4.1%	4.1%
Treatment Inflation Rate:	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%
Purchased Water Inflation Rate	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%
Employee Expenses Inflation Rate:	2.6%	2.6%	2.6%	2.6%	2.6%	2.6%
Equipment Inflation Rate:	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%
Fuels and Automobile Inflation Rate:	3.6%	3.6%	3.6%	3.6%	3.6%	3.6%
Construction Inflation Rate:	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
No Escalation:	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

## **CAPITAL EXPENSE**

### Total = \$30 million

	CY 2020	CY 2021	CY 2022	CY 2023	CY 2024
Replacement/New Equipment	\$440,217	\$608,922	\$375,113	\$373,115	\$483,704
Studies and Planning	\$604,985	\$125,000	\$200,000	\$125,000	\$125,000
Water Supply	\$512,177	\$786,976	\$806,143	\$1,101,034	\$0
Replacement Capital Projects	\$3,056,808	\$3,985,035	\$4,469,925	\$5,758,578	\$2,554,233
New Capital Projects	\$578,810	\$0	\$529,664	\$0	\$3,120,913
Total CIP Expense	\$5,192,998	\$5,505,934	\$6,380,845	\$7,357,728	\$6,283,850

# **DEBT SERVICE**

	CY 2019	CY 2020	CY 2021	CY 2022	CY 2023	CY 2024
Principal	\$1.9	\$1.9	\$2.0	\$2.7	\$2.6	\$2.8
Interest	\$2.6	\$2.5	\$2.5	\$3.1	\$3.1	\$3.0
Debt Service Total	\$4.5	\$4.5	\$4.5	\$5.8	\$5.7	\$5.8

- 2012 Private Placement
- 2013A Series Water Revenue Bonds
- 2018A Series Water Revenue Bond
- Capital Leases Payable 2017
- 2021 Bond Issuance \$20 million

# **OTHER OBLIGATIONS**

Reserves: District's Goal based on Reserve Policy Resolution No, 18-10 is \$16.2 million = \$950,000 Annual Contribution

Water Conservation Rebate Program/Change in Investment in PRWA = \$535,500

# **REVENUE REQUIREMENTS**

O&M Expense - \$23.1 million CIP Expense - \$5.2 million Debt Service - \$4.5 million Other Obligations - \$1.5 million Total Cost - \$34.3 million

Offset by Non-Rate Revenues - \$4.1 million

CY 2020

**Revenue Requirements - \$30.2 million** 



## Revenues from Rates - \$23 million Revenue Requirements - \$30 million

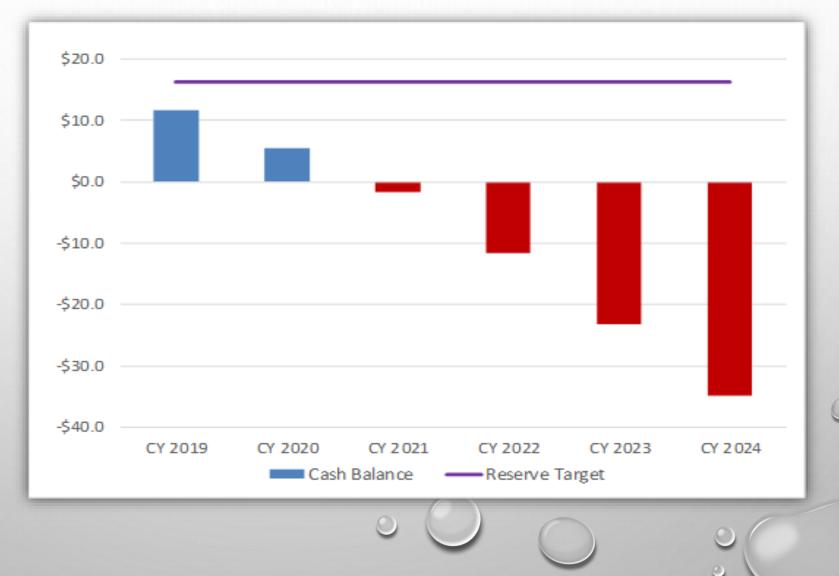
An annual 8.1% rate adjustment

**Deficit- \$7 million** \$5 million from reserves \$2 million from rates

**Adjusted Revenue Requirements for CY 2020: \$25 million** 

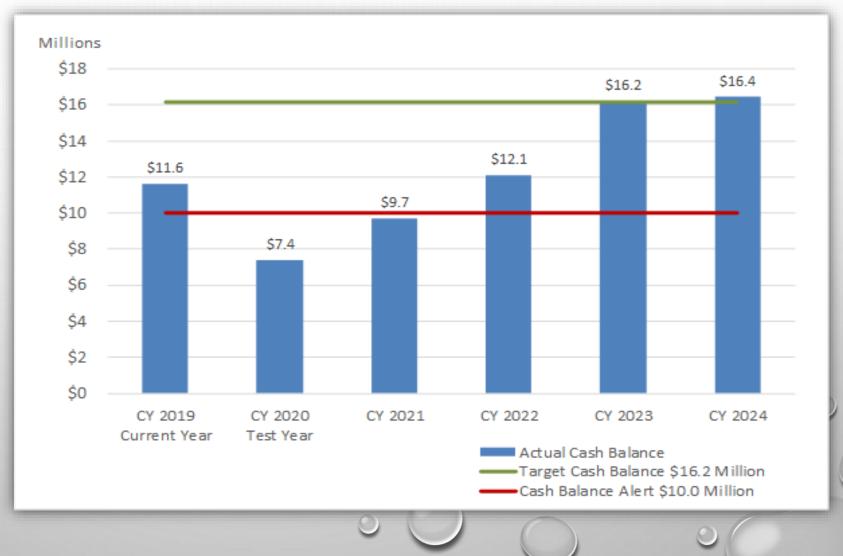
## **NO ACTION IS TAKEN – CASH BALANCE**

No rate adjustments, plus no new bond issuances



#### **RECOMMENDED RATE ADJUSTMENTS – CASH BALANCE**

An annual 8.1% rate adjustment



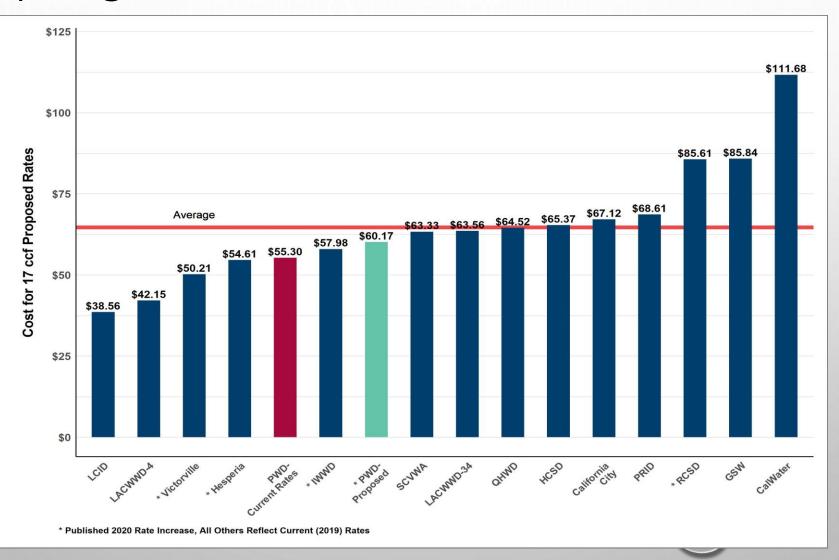
### **PROPOSED RATES**

Fixed Charge Monthly									
Meter Size	CY 2020	CY 2021	CY 2022	CY 2023	CY 2024				
5/8-in	\$38.22	\$41.60	\$45.52	\$49.79	\$54.43				
3/4-in	\$38.22	\$41.60	\$45.52	\$49.79	\$54.43				
1-in	\$38.22	\$41.60	\$45.52	\$49.79	\$54.43				
1 1/2-in	\$92.99	\$101.49	\$111.51	\$122.47	\$134.37				
2-in	\$140.84	\$153.81	\$169.16	\$185.96	\$204.21				
3-in	\$252.48	\$275.89	\$303.69	\$334.10	\$367.16				
4-in	\$412.05	\$450.38	\$495.96	\$545.84	\$600.07				
6-in	\$810.62	\$886.21	\$976.21	\$1,074.72	\$1,181.81				
8-in	\$1,289.09	\$1,409.41	\$1,552.74	\$1,709.62	\$1,880.17				
10-in	\$1,847.47	\$2,019.99	\$2,225.56	\$2,450.56	\$2,695.17				

Commodity Charges per HCF									
Proposed Rates	CY 2020	CY 2021	CY 2022	CY 2023	CY 2024				
Tier 1	\$0.88	\$0.93	\$0.98	\$1.03	\$1.08				
Tier 2	\$1.52	\$1.63	\$1.74	\$1.86	\$1.98				
Tier 3	\$2.03	\$2.15	\$2.27	\$2.40	\$2.54				
Tier 4	\$3.29	\$3.51	\$3.74	\$3.98	\$4.23				
Tier 5	\$4.64	\$5.01	\$5.39	\$5.79	\$6.23				

#### **RATE COMPARISON STUDY**

#### Rate Comparison @ 17 hcf



#### **RATE COMPARISON STUDY**

The recent rate adjustments implemented by the neighboring agencies

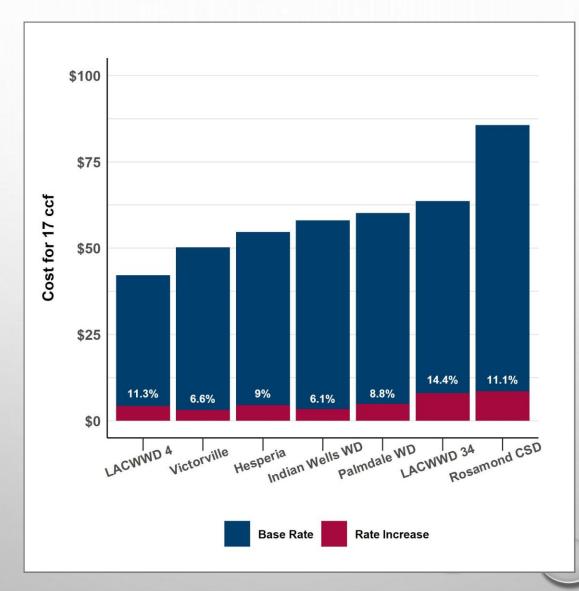
#### Rate Comparison @ 17 hcf

	LACWWD 4	Hesperia	Rosamond CSD	Victorville	Palmdale WD	LACWWD 34	Indian Wells WD
Old	\$37.88	\$50.12	\$77.09	\$47.10	\$55.29	\$55.58	\$54.66
New	\$42.15	\$54.61	\$85.61	\$50.21	\$60.17	\$63.56	\$57.98
Increase	\$4.27	\$4.49	\$8.52	\$3.11	\$4.88	\$7.98	\$3.32

The PWD rate includes water treatment charge of \$0.11/HCF

#### **RATE COMPARISON STUDY**

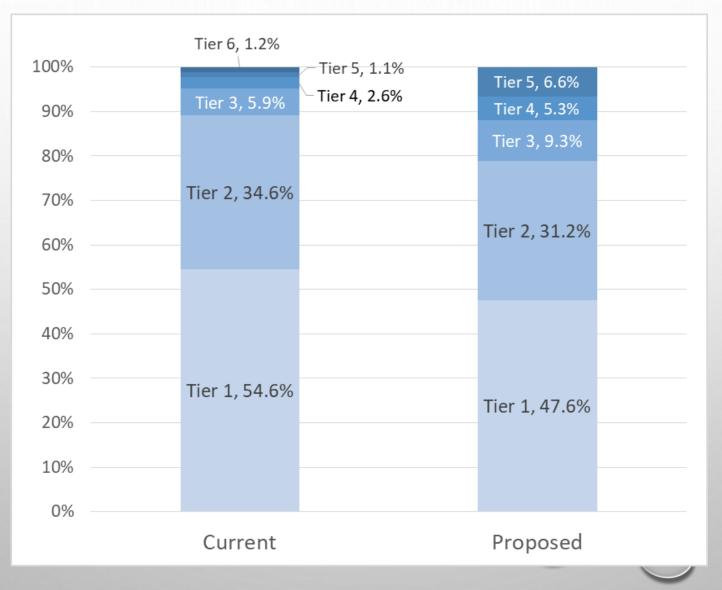
Rate Comparison @ 17 hcf



## **RECOMMENDED STRUCTURAL CHANGE**

- Reduce number of tiers from six to five
- Reduce water allocation per capita per day (GPCD) from 66 to 55
- Establish "Irrigable Area" for each parcel using Eagle Aerial data
- Use the water budget allocation method of Single Family Residential customers for Multi-Family residential customers
- Establish "Exempt Irrigation Accounts" to receive 100 % landscape factor (LF) for their water budget

## RECOMMENDED STRUCTURAL CHANGE



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