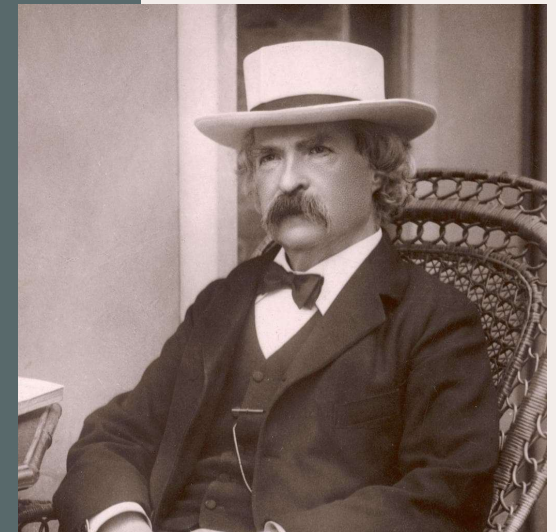


# Rancho Murieta Water Supply 2023 - 2043

January 11, 2023



Lake Calero  
November 2021



“WHISKEY IS FOR  
DRINKING, WATER IS  
FOR FIGHTING OVER”

MARK TWAIN

## Why are we here?

There are over 4500 residential hookups and Commercial EDUs in the mapped or application stage

CSD has elected to perform an evaluation of its water supply

This is the Integrated Water Master Plan  
This was last done in 2010

CSD must provide the County with proof that development can be supported by its water supply

CSD is 'rushing' this project

CSD has confused the vendor selection called the 'RFP'

There is confusion over public input that has yet to be resolved

How much risk are we required, or willing, to take to build 1000 houses?

'The Risk Assessment'

### 2019 RMA Community Survey Results

There were 1,089 surveys returned, which is a 47% return rate.

#### Question 1. How many people live in your household?

	2 years or younger	3 - 5 years	6 - 12 years	13 - 18 years	19 - 35 years	36 - 54 years	55 - 70 years	71+ years
Number	33	56	135	169	145	409	735	652
Percentage	1%	2%	6%	7%	6%	18%	32%	28%

#### Question 2. Do you live in Rancho Murieta North or Rancho Murieta South?

	North	South
Number	726	292
Percentage	72%	28%

#### Question 3. Do you own or rent your home?

	Own	Rent
Number	992	9
Percentage	99%	1%

#### Question 4. How many years have you lived in Rancho Murieta?

	0-5 years	6 - 10 years	11 - 20 years	21+ years
Number	209	135	332	332
Percentage	21%	13%	33%	33%

#### Question 5. Why did your household move to Rancho Murieta?

447	Biking, running and walking trails
332	Close to family/friends
101	Close to work
172	Good schools
509	Golf courses and Country Club
609	Nature and wildlife
310	Retirement
716	Rural setting: quiet, peaceful
794	Security/gated community
137	Youth activities/sports fields
	Other - See attachment 1 - available on <a href="http://rma.nabnetwork.com">rma.nabnetwork.com</a>







# Residential, Commercial, and Other Demand

- All are part of the water supply
- All must be identified and verified

▪ CSD Residential (Currently)	2601	▪ Sullivan March 2022 Maps	697
<u>Planned/Approved</u>			
▪ Riverview	140	▪ Additional Commercial	Undefined
▪ Lakeview	99	▪ Raw Water Usage (LJ/Clem)	Undefined
▪ Hovanian \$\$\$	62	▪ Community Centers/Pools	Unknown
▪ Extended Stay Hotel	24	▪ RMCC Potable Demand	Unknown
▪ 39 acres at CSD	Undefined	(Should RW be unavailable)	
▪ Current Retail/Commercial	Redefine	▪ Accessory Dwellings	Undefined
▪ Planned & Unplanned Parks	Undefined		
▪ Equestrian Center	Future uses		
▪ Apartment Complex	Undefined		
▪ Residences East & West	198		

- We KNOW about 3826 Residential homes      GPCPD
- We DON'T know about the Undefined      EDU
- We DON'T know about future uses      EDU

*JOHN SULLIVAN WANTS TO TALK ABOUT 695 UNITS...*

*WITH THE KNOWNS AND UNKNOWNNS, WE ARE TALKING ABOUT AN EQUIVALENT OF 4000-4500 HOMES!!!*

## Scoping

Provides a clear definition of procedure

Clarifies data / creates an agreement

**This is accepted Public Planning Procedure**

- We must have scoping!
- Documented data / list of data
- There are current data 'disconnects'

There are current data 'disconnects' in production figures versus what is reported on the invoice to customers. We must audit this before we begin.





# Accessory Dwellings

- New Laws
  - Over-the-Counter Permits
  - 1100 sq. feet on large lots
  - Cannot be overturned by HOA CCR's
  - Customer companies
  - 'Merchant's Garage' / Parking
- 
- Who sets the total & converts it to water use?
  - Cannot start without agreement on this number!
- 
- An 110 square foot 'apartment' is a dwelling
  - 10% dwellings increase (AD's) = 4.4 MGY of water use
  - 14-acre feet of water per year
  - We don't have a real number to use

REMEMBER – WE ARE  
CONSIDERING  
**20 YEARS**  
THAT THIS DEVELOPMENT  
GETS TO USE THIS OUTCOME  
AND WATER SUPPLY  
ASSESSMENT!!!

Some History...

May 13th, 2009

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*Dick Brandt writes the CSD Board in 2009 and makes the CSD aware of the 1986 agreement.*

- 50% Conservation Compromise
- Lower development
- No alternative source of supply

Cont...

## 1990 – Giberson Report

Results in Policy 90-2

50% Conservation (1977)

1<sup>st</sup> Priority – Domestic Water

0% 1924 (free flow)

Developers are encumbered (They Pay!!!)

- 1<sup>st</sup> Year Drought = 50%
- Kills *ALL* landscape
- 2<sup>nd</sup> Year 'Truck it in'
- More Storage

Cont...

## 1991 – John Wegner Documents our Rights

4 Permits / Licenses

#16762 – Diversion

#16763 – Recreational (Clementia)

#16764 & #16765 – Drainage, no diversion

❖ Riparian Rights – We have none

❖ Appropriative Rights

- Specific quantity of water
- Specific purpose
- Specific time of year – diversion
- One place of use
- Must dispose of recycle water – ‘Every Drop’

The water right says:

- 6368 A/F per year
- Can only store 3900 A/F a year
  - 2610 Calero
  - 1250 Chesboro (perpetual)
  - 850 Clementia
  - 40 Hole 10

*\*OUR APPLICATION TO RENEW OUR WATER RIGHT HAS BEEN FILED*

## 2006 & 2010 IWMP

- 2006 Justifies PDF Development
- 2010 Updates and Justifies
  - Used in 2016 Water Supply Assessment

	2006	2010
Raw Water	4145 AFY	3640/4550
Storage	Calero Dead	Uses Clementia
Conservation in Drought	50%	50% = No Shortage
Additional Storage	435 AF	300 AF
Model	3 Scenario	
Other	Aesthetics 2 Workshops 2873 Lots MGT Measures High/Low	Uses 2020 savings Uses raw water 'medium' not actual 5 workshops Develop direction

13 years = No direction of what to do with Recycled Water

## Storage Acre Feet

Reservoir	Permit	Adjusted 'oops'	Dead Storage	Net Storage
Calero	2610	(500)	(300)	1810
Chesboro	1250	(75)	(450)	725
Clementia	850	(50)	-	800*
Hole 10	40	(40)	-	-

3335 USEABLE STORAGE

- Permit 16762 is RM's only right for diversion of water for treatment.
- Clementia's water is on permit 16764 and is raw water only.
- 4050-acre feet is allowed to storage for processing.

\*Clementia 1100-acre watershed  
 - Potable replacement of natural drainage  
 - Urban storm water

350 to 450-acre feet of drainage disappears behind the lakes

665-acre feet under reported storage (2006 & 2010)

## MEMORANDUM

Date: May 11, 2022  
To: Board of Directors  
From: Michael Fritschi, P.E. - Director of Operations  
Subject: Water Curtailment of Permit 16762

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### RECOMMENDED ACTION

It is recommended that the Board of Directors authorize the implementation of Stage 2 potable water restrictions.

### BACKGROUND

On May 10, 2022 at 4:52 PM the District received an email from the State Water Resources Control Board (SWRCB) that Post-1914 appropriative water rights in the San Joaquin River watershed outside of the Legal Delta with a priority date of 1957 or later have been curtailed and that the Delta Watershed Curtailment List will need to be checked for the current curtailment status of each water right and claim in the Delta watershed.

Upon checking the curtailment list on May 11, 2022, it was found that the following post 1957 claimed priority year rights were curtailed as of May 11, 2022:

A019477 – Original Calero for storage of 49.3 acre-ft

A020057 – Lake Guadalupe collect and store for irrigation 8 acre-ft

A022603 – Lake Guadalupe collect and store for irrigation 5 acre-ft

#### **A023416 – Direct diversion to storage November 1<sup>st</sup> to May 31<sup>st</sup>**

A023417 – Impound run-off up to 130 acre-ft for recreational and stock watering Laguna Joaquin

A023419 – Pump diversion to storage impound local run-off 1240 acre-ft for recreational and stock watering in Clementia

The temporary curtailment of A023416 greatly affects the District's ability to divert and store water for the year for potable use. Currently the District has 20 pumping days remaining under this water right until May 31<sup>st</sup>.

Stop logs were placed in all three reservoirs on April 15<sup>th</sup>, 2022 as currently allowed by the Division of Dam Safety. Currently Calero Reservoir and Chesbro Reservoir are within 10 inches and 3 inches from reaching the top of the stop logs respectively. Clementia Reservoir is within 24 inches of reaching the top of the stop logs.

In this time of the year and given the state of the reservoir levels, the District would normally pump about 7.5 million gallons per day to fill the three reservoirs to the level of the top of the

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stop logs. With the curtailment of this water right, the District will not be able to completely fill the additional stop log volume this year. The curtailment Emergency Regulation exception does allow the District to divert the equivalent of 55 gallons per person per day. As of April 30<sup>th</sup>, the District has 2730 connections and the most recent census states that there are 2.8 persons per household which would equal an allowable diversion of 420,420 gallons per day. While the total of the 2730 connections contains commercial connections, the 2.8 persons per household would be considered a conservative water use assessment.

To continue pumping at the reduced rate of 420,420 gallons per day, the District must certify compliance with the Deputy Director: *Any diverter wishing to continue diversion under this subdivision must submit to the Deputy Director certification, under penalty of perjury, of compliance with the requirements of subdivisions (b)(1)(A)-(E).*

To qualify for the exception under the emergency rules under **Minimum Human Health and Safety Needs 878.1 (b) C**: *"The diverter and all end users of the diverted water are operating under the **strictest existing conservation regime for that place of use**, if such a plan exists for the area or service provider or shall be operating under such regime within 30 days. If additional approvals are required before implementation of the conservation regime, the diverter must certify that all possible steps will be taken immediately to ensure prompt approval."*



While the District water users are not currently under any formal conservation restrictions, the Board will need to implement restrictions that Board consider the “strictest existing conservation regime for that place of use”. It is suggested that the Board implement the restrictions to allow the District to pump via the emergency exception rule. To meet the spirit of the Minimum Human Health and Safety Needs exception using the “*strictest existing conservation regime for that place of use*”, the District would move the users to stage 2 drought restrictions per the District Water Shortage Contingency Plan.

Drought Restriction Stage 2 would result in the following restrictions:

- Watering a maximum of 2 days per week
- Eliminating hosing of all hardscape
- Eliminating leaks immediately
- Preventing water from flowing off property

According to the most recent data, residential users are using a little over 100 gallons per person per day. With the Minimum Human Health and Safety Needs exception limitation of 55 gallons per person per day on diversion, the reservoirs will likely decrease in level, although more slowly than if there were no exception pumping allowed.

#### **Conclusion**

Due to the complete **A023416** water right curtailment of diversion, and the requirements of **section 878.1 (b) C** Minimum Human Health and Safety Needs exception of allowing 55 gallons per person per day, Staff are requesting that the Board approve implementing the Stage 2 Water Restrictions.

# Diversion

- ❖ May 11<sup>th</sup>, 2022, water rights curtailed for the first time
- ❖ State is now saying that your water right is not a guarantee of diversion
  - A fragile system
  - An inconsistent source
  - No backup supply
    - Wells + Efficiency / Volume
    - Wells on development property
  - EVERY STUDY recommends additional storage

# Seepage and Evaporation

- Early 2006 estimates 25%
- Giberson – 25%
- Evapotranspiration (earth to atmospheric)
  - 57.0 inches per year standard

## Recycled Water

- 'Not one Drop'
- Impact of drought tools
- Impact of landscape restrictions
- Can we make more than the club will use?
- 2017 Report
- Sullivan's 2021 drought plan (zero flow in July)
- RMCC Allocation
  - 550 AFPY
  - More in drought years

This report cannot begin without first re-evaluating the volume of recycled water we can create and disseminate

The 2010 Integrated Water Master Plan uses this in a Big Way

# River Flow Evaluation Data

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- One Year
  - Driest Year
  - 3 Year Worst
  - 3 Year 1930's Average
  - Now in Year 4 Drought
- 
- What is the standard?
  - What about the Regulating State Board?

## What we need...

Short term –

Commitment to public outreach

Scoping meeting

Midpoint Update

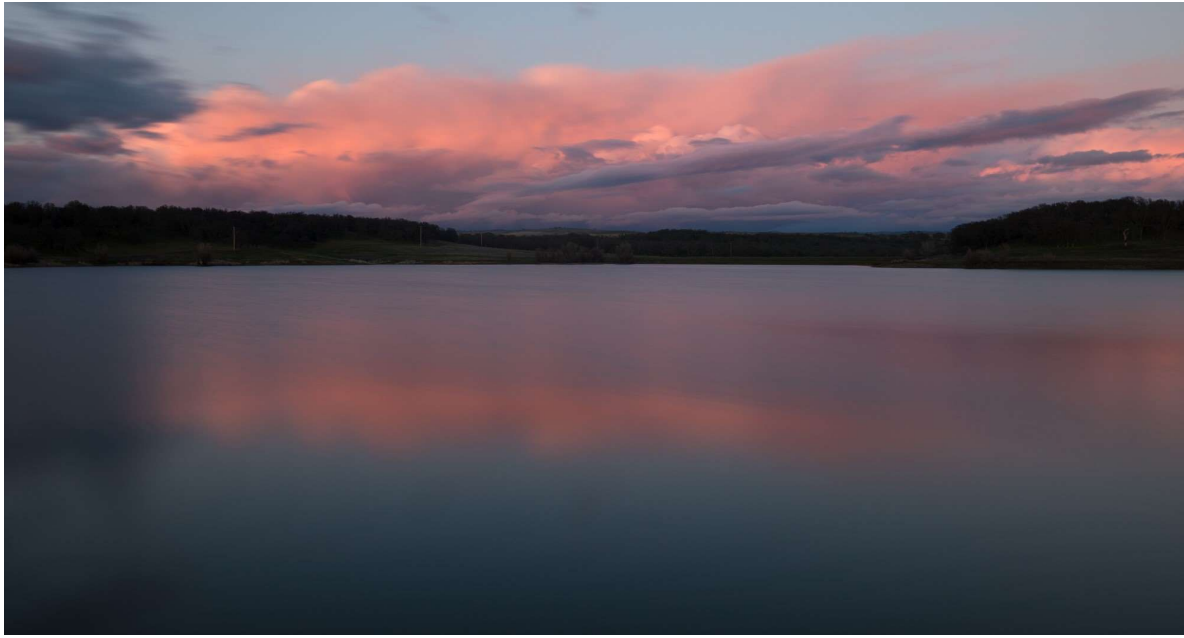
Draft Report – with 45-day comment period

Advocates in the audience

First for water supply

Second for watershed protection

Third for Quality-of-Life issues



Thank you