



RANCHO MURIETA COMMUNITY SERVICES DISTRICT

15160 Jackson Road, Rancho Murieta, CA 95683

Office - 916-354-3700 * Fax - 916-354-2082

IMPROVEMENTS COMMITTEE

(Directors Randy Jenco and Martin Pohll)

Special Meeting

August 7, 2024 at 8:00 a.m.

All persons present at District meetings will place their cellular devices in silent and/or vibrate mode (no ringing of any kind). During meetings, these devices will be used only for emergency purposes and, if used, the party called/calling will exit the meeting room for conversation. Other electronic and internet enabled devices are to be used in the "silent" mode. Under no circumstances will recording devices or problems associated with them be permitted to interrupt or delay District meetings.

AGENDA

- 1. Call to Order**
- 2. Improvements Staff Report**
 - A. *Discussion Item* Broken Raw Water Conveyance Pipe from Granlees to Calero Reservoir
 - B. *Discussion Item* Rio Oso Tank Flow Meter Installation Update
 - C. *Discussion Item* District Raw Water Report Methodology
 - D. *Discussion Item* Bathymetric Survey of Clementia
 - E. *Discussion Item* RFP for Professional Services for District Engineer and Construction Inspection Services
 - F. *Discussion Item* Proposed Enhancement of District's Meter Technology/Leak Detection with Advanced Meter Infrastructure (AMI)
 - G. *Discussion Item* Report on Rio Oso Distribution System Storage Capacity
 - H. *Discussion Item* Proposal to Authorize a Comprehensive Distribution System Study
 - I. *Discussion Item* Development Update



3. Comments from the Public

If you wish to speak during Comments from the Public or would like to comment regarding an item appearing on the meeting agenda, please complete a public comment card and submit to the Board Secretary prior to Public Comments. We will hold all comments to the Public Comment section.

4. Director and Staff Comments/Suggestions

5. Adjournment

"In accordance with California Government Code Section 54957.5, any writing or document that is a public record, relates to an open session agenda item and is distributed less than 24 hours prior to a special meeting, will be made available for public inspection in the District offices during normal business hours. If, however, the document is not distributed until the regular meeting to which it relates, then the document or writing will be made available to the public at the location of the meeting."

In compliance with the Americans with Disabilities Act if you are an individual with a disability and you need a disability-related modification or accommodation to participate in this meeting or need assistance to participate in this teleconference meeting, please contact the District Office at 916-354-3700 or awilder@rmcsd.com. Requests must be made as soon as possible.

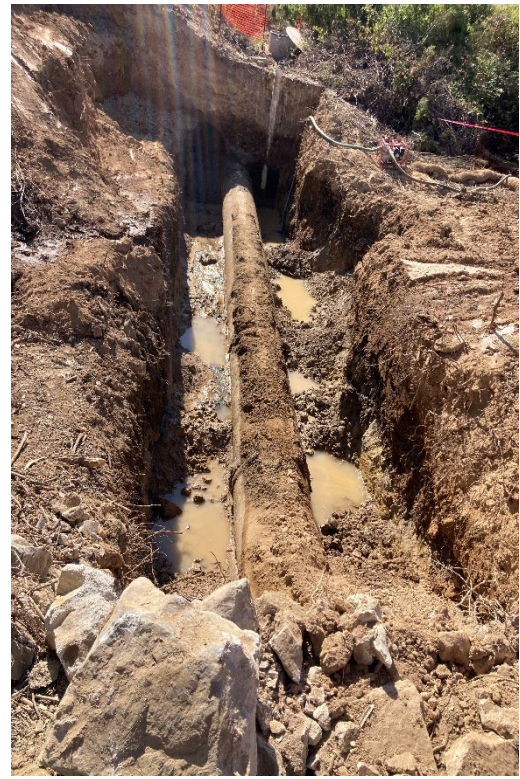
Note: This agenda is posted pursuant to the provisions of the Government Code commencing at Section 54950. The date of this posting is August 4, 2024. Posting locations are: 1) District Office; 2) Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.

MEMORANDUM

Date: August 7, 2024
To: Improvements Committee
From: Travis Bohannon – Interim Director of Operations
Subject: Monthly Improvements Committee Updates

A. Repair Broken Raw Water Conveyance Pipe from Granlees to Calero Reservoir.

On June 20, 2024, it was reported to the District that there was a potential leak in the Clementia spillway. After an investigation, it was believed that the raw water line that takes raw water from the Cosumnes River to Calero reservoir was broken. Since we are not pumping anymore, Staff closed the valve at Calero reservoir to stop the leak. On Monday, July 29, 2024, TNT Industrial Contractors, Inc. (TNT) started the repair on the raw water line. On 8/1/24, the raw water line was exposed and the break was found. TNT will be doing more digging to completely expose the whole pipe. We will not be able to use the same type of pipe to do the repair due to the one (1) year lead time to get a new stick of pipe in the same material. Domenichelli and Associates are coming up with a plan "B" to be able to do the repair.



B. Rio Oso Tank Flow Meter Installation Update

This item was discussed with Domenichelli and Associates Staff and they found a meter that will fit around the influent pipe for the Rio Oso tank. They are in the process of getting prices and availability of the flow meters.

C. District Raw Water Methodology

See attached report.

D. Bathymetric Survey for Clementia Reservoir:

At the July 17, 2024 Board Meeting, Director Butler asked me to inquire about the cost to do a bathymetric survey for Clementia Reservoir. I reached out to Adkins Engineering for a budgetary quote since they did the other to reservoir surveys. Their proposal was for an estimated amount of \$28,400, done on a Time and Material basis. If the board decides to move forward with getting the survey done, I will solicit other bids for the survey.

E. RFP for Professional Services for District Engineer and Construction Inspection Services:

The district received two bids for Engineering Services. One bid was from Domenichelli and Associates and the other bid was from SNG & Associates. The bids were reviewed and scored by Director Pohll and myself. Below is the scoring sheet for the 2 bids. Staff are recommending continuing with Domenichelli and Associates.

<i>MASTER RFP Scoring Matrix for On-Call Professional Services for District Engineer and Construction Inspection Services</i>					
		Respondents (Score Respondants 0-10)			
		Domenichelli & Assoc		SNC	
Criteria	Criteria Weight	Score	Total	Score	Total
1. Understanding of Scope of Work & Project Objectives	10	9	90	7	70
2. Project Approach	20	10	200	6	120
3. Quality of Overall Work Plan	5	8	40	7	35
4. Proposed Project Schedule for Timely Completion of Work	5	10	50	5	25
5. Company Experience Completing Similar Projects	10	10	100	7	70
6. Individual Team Member Experience Completing Similar Projects	10	9	90	6	60
7. Reference Quality - to be scored by one reviewer	5	9	45	8	40
8. Pricing - to be ranked after items #1-7 are complete and fitted between 0-10 based on highest to lowest pricing.	35	0	0	0	0
		Totals:	615	Totals:	420
Rank			1		2

F. Proposed Enhancement of District's Meter Technology/Leak Detection with Advanced Meter Infrastructure (AMI)

See attached report.

G. Rio Oso Distribution System Storage Capacity

This report is pending a memo from Joe Domenichelli.

H. Proposal to Authorize a Comprehensive Distribution System Study

This report is pending a memo from Joe Domenichelli.

I. Development Update

See attached report.

MEMORANDUM

Date: August 7, 2024
To: Improvements Committee
From: Mimi Morris, General Manager
Subject: Raw Water Storage Lakes

At the July 17, 2024, Board Meeting, former Board Member John Merchant requested that Clementia Reservoir be excluded from the Raw Water Storage calculations because the inclusion overstates the available supply of potable water.

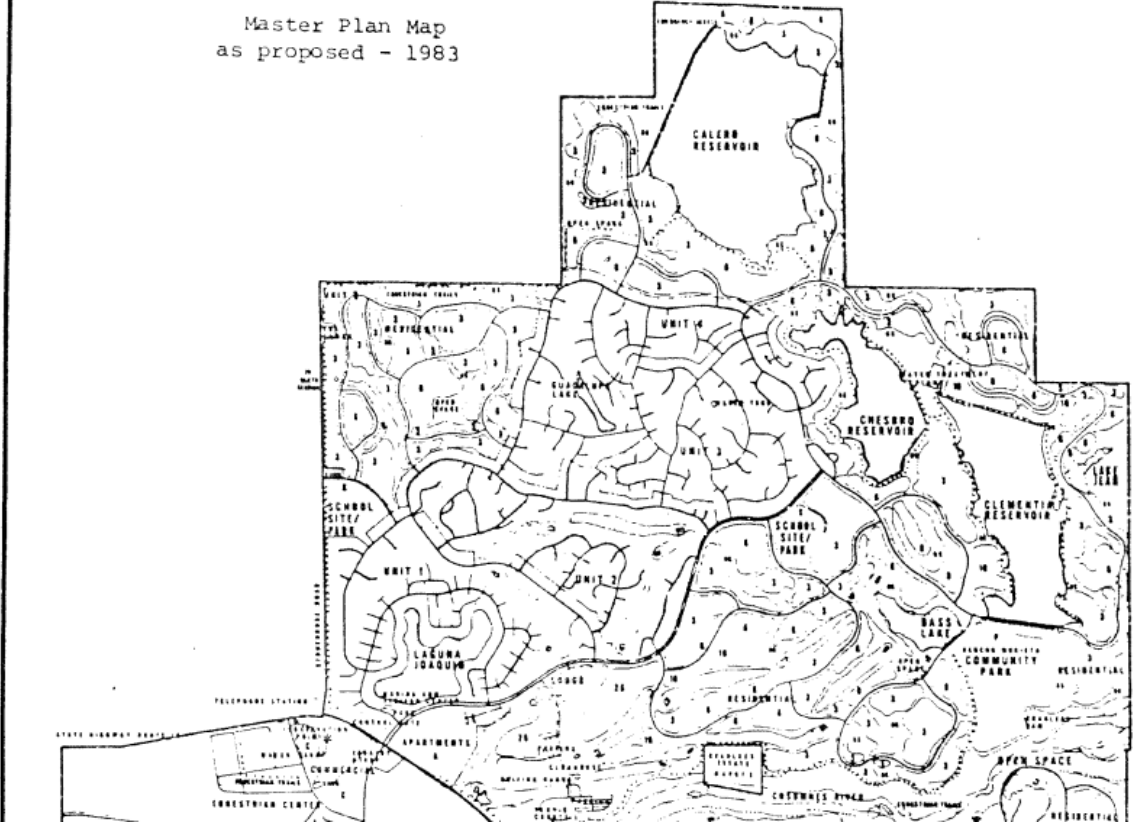
Staff disagree with this assertion and recommend no action to omit Clementia. Staff recommends this because Clementia has been considered a key part of the overall Rancho Murieta water system since the original Master Plan was developed in 1983. See attachments.

Attachment 1

Rancho Muñeta

EXHIBIT I

Master Plan Map
as proposed - 1983



MEMORANDUM

Date: August 7, 2024
To: Improvements Committee
From: Mimi Morris, General Manager
Subject: Advanced Metering Infrastructure (AMI) and Leak Detection Proposal

Since mid-June, staff has been researching Advanced Metering Infrastructure (AMI). Several providers of AMI technology exist, and they are all an enhancement to the District's current meter data collection methodology which is based on drive-by readings of the meters. The current methodology is not only time-consuming, but also hindered by faulty meters.

Staff has reported out in recent months on "non-read" or "zero-read" meters that require a separate visit to the meter for a manual read or for estimates based on prior months' usage. The District has a variety of meters in place, not all of which are equipped with the technology needed to allow for remote data transmission.

Two vendors have been evaluated, both of which use a dedicated radio frequency to receive meter usage data electronically from throughout the community at one or two collection sites with a base.

Receiver and antennae. Both would require upgrades to our existing meters for them to be able to be read remotely.

One of the vendors offers a unique ultrasonic acoustic leak detection technology that is integrated into their ultrasonic meters. These meters are highly accurate for water usage and the company utilizes the data collection to pinpoint small, mostly undetected and long-standing leaks. These leaks can be the costliest since they are continuous and undetected for months and years.

The one-time overall investment in new meters and the data collection infrastructure is roughly \$900,000 for meters, another \$220 to \$240K for their installation, another \$40-\$50K for the data collection infrastructure, (base device, antennae, etc.) and another \$20K for annual software costs. For a total of almost \$1.2 million fixed costs and ongoing costs of \$20K per year.

The Bureau of Reclamation administers a WaterSmart and Energy Efficiency grant program that includes AMI. Staff are applying for funding before the October 31st deadline while also gathering more data regarding the projected costs. Funding decisions occur in May of 2025. Staff are gathering information on the program to determine if costs incurred now could be eligible for reimbursement so that the District could move forward with improved meter reading technology.

The District is less than 100 connections away from 3,000 total connections and the corresponding transition to an Urban Water provider. There are multiple new reporting obligations that will be in play at that time, including annual water loss audits. Planning now for improved leak detection will help us address our current loss rate of 12% (200 acre feet per year) while also improving our overall utility billing accuracy and efficiency.

Staff will continue to evaluate the options and will bring additional information to the board in the coming weeks.

Summarized Development Report

8/1/2024

599 Lots included in 670

RMD.001, Retreats West: 22 Lots

22 Connected Lots

22 Lots known as s ()

RMD.002, Retreats N&E: 62 Lots

62 Connected Lots

62 Lots known as s ()

RMD.003, Riverview: 140 Lots

30 Connected Lots

2 Lots known as Big Estates (12,000-14,500 sq ft.)

11 Lots known as Circles (6500-8500 sf)

10 Lots known as Cottages (<6500 sf)

5 Lots known as Mini-Estates (8500-12K sf)

2 Lots known as Mini-Mansions (14,500-24,500 sq ft.)

110 Planned Lots

4 Lots known as Big Estates (12,000-14,500 sq ft.)

42 Lots known as Circles (6500-8500 sf)

22 Lots known as Cottages (<6500 sf)

4 Lots known as Mansions (>24,500 sf)

31 Lots known as Mini-Estates (8500-12K sf)

7 Lots known as Mini-Mansions (14,500-24,500 sq ft.)

RMD.004, Residences of Murieta Hills: 198 Lots

198 Planned Lots

65 Lots known as Big Estates (12,000-14,500 sq ft.)

5 Lots known as Mansions (>24,500 sf)

99 Lots known as Mini-Estates (8500-12K sf)

29 Lots known as Mini-Mansions (14,500-24,500 sq ft.)

RMD.005, Lakeview: 99 Lots

99 Cancelled Lots

99 Lots known as s ()

RMD.008, Murieta Gardens II: 78 Lots

78 Connected Lots

78 Lots known as s ()