

ENGINEERING COMMITTEE

AGENDA

Committee Meeting:
Tuesday, August 9, 2016
2:00 PM (Board Room)

Calaveras County Water District
120 Toma Court / P.O. Box 846
San Andreas, California 95249

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Administration Office at (209) 754-3028. Notification in advance of the meeting will enable CCWD to make reasonable arrangements to ensure accessibility for this meeting. Any documents that are made available to the Committee before or at the meeting, not privileged or otherwise protected from disclosure, and related to agenda items, will be made available at CCWD for public review.

ORDER OF BUSINESS

CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. **PUBLIC COMMENT**

At this time, members of the public may address the Committee on any non-agendized items. The public is encouraged to work through staff to place items on the agenda for consideration by the Committee. Comments are limited to five (5) minutes per person.

2.* **APPROVAL OF MINUTES**

- July 12, 2016 Minutes

3.* **NEW BUSINESS**

3a. Presentation / Discussion of West Point and Wilseyville Water Supply Reliability and Planning Objectives (Charles Palmer, District Engineer and Peter Martin, Water Resources Program Manager)

3b. Review / Discussion of Suspension of Service Policy (Joel Metzger, Public Information Officer / Customer Relations Manager)

4. **OLD BUSINESS**

Nothing to report

5. **FUTURE AGENDA ITEMS**

- Review / Discussion of Appraisal of 52.81 Acre Parcel Hogan Dam Rd., Valley Springs, CA (Robert Creamer, Engineering Analyst)

6. **NEXT MEETING**

Tuesday, September 6th, 2016 at 2:00 PM
Regular Meeting

7. **ADJOURNMENT**

*Paperwork included in package

ENGINEERING COMMITTEE
CALAVERAS COUNTY WATER DISTRICT
July 12, 2016

The Engineering Committee of CALAVERAS COUNTY WATER DISTRICT met at the CCWD offices in San Andreas, California, at approximately 2:10 p.m.

The following Directors/Committee Members were present:

Jeff Davidson
Terry Strange

Also present:

Dave Eggerton	General Manager
Jeff Meyer	Director of Administrative Services
Teresa Tanaka	Director of Operations
Joel Metzger	Customer Service Manager
Peter Martin	Water Resource Program Manager
Charles Palmer	District Engineer
Bob Godwin	Senior Civil Engineer
Robbie Creamer	Engineering Analyst
Sam Singh	Engineering Technician
Tami Bennett-Kirby	Senior Administrative Technician
Ken Duncan	Forest Meadows Owners Association
Ken Woznak	Forest Meadows Owners Association
Mike Benapfl	Forest Meadows Owners Association
Dan Baci	Sierra Golf Management
Vicky Mills	Ratepayer

1. PUBLIC COMMENT: None

2. APPROVAL OF MINUTES:

The May 10, 2016 Minutes were approved as presented.

3. NEW BUSINESS

3a. Presentation / Discussion of Forest Meadows Wastewater System and Effluent Storage and Disposal Facilities.

Bob Godwin gave a PowerPoint presentation, along with accompanying slide handouts, discussing the Forest Meadows wastewater treatment facilities operated by the District and those operated by others which the District utilizes for storage and disposal. Topics discussed included:

- An overview of the Wastewater Treatment Plan
- Forest Meadows Storage Pond and Golf Course

- Treatment system design criteria and capacity, and
- Permit compliance challenges facing the District for facilities operated by others

There was lengthy discussion including responses from Bob and the Director of Operations, Teresa Tanaka, to questions from the Forest Meadows Owners Association members and comments from Dan Baci (Sierra Golf Management).

Bob recommended updating the Ebbetts Pass Wastewater Master Plan (last updated in 2004) within the next two years.

3b. Presentation / Discussion of the West Point/Wilseyville Water Supply Reliability and Planning Objectives

This item was rescheduled for the August 9, 2016 Engineering Committee meeting.

4. OLD BUSINESS

None

5. STAFF COMMENTS:

None

6. DIRECTOR COMMENTS:

None

7. FUTURE AGENDA ITEMS:

- West Point/Wilseyville Water Supply Reliability and Planning Objectives
- Review of Suspension of Service Policy

8. SETTING OF NEXT MEETING

- August 9, 2016

9. ADJOURNMENT

There being no further business, the meeting adjourned at approximately 3:30 p.m.

Respectfully submitted,

Tami Bennett-Kirby
Senior Administrative Technician

CCWD ENGINEERING COMMITTEE

Agenda Item

DATE: August 9th, 2016

TO: Engineering Committee

FROM: Charles Palmer, P.E., District Engineer
Peter Martin, Water Resources Program Manager

SUBJECT: West Point Water System / Raw Water Supply Reliability

Introduction

The West Point Water System currently has 567 service connections providing potable water to the communities of West Point, Wilseyville, and Bummerville. The raw water supply is diverted from Bear Creek and the Middle Fork of the Mokelumne River. Bear Creek is not a completely reliable water source during the summer months and, standing alone, cannot provide sufficient water supply during seasonal dry periods. As a result, CCWD has an agreement with the Calaveras Public Utility District (CPUD) for purchase of water annually from the Middle Fork. Based on the last planning effort by HDR in 2004, CCWD implemented many but not all of the previously recommended capital improvements. Also, the previous planning effort did not fully anticipate the 2015 drought conditions, including insufficient flow with lengthy curtailments in Bear Creek, degraded raw water quality, and extensive/extended use of raw water diverted from the Middle Fork. An updated planning effort is proposed to re-evaluate the reliability of the raw water sources and confirm and prioritize future capital improvement projects.

Existing Facilities

CCWD's existing raw water facilities are shown in the attached Figure 1 and described below.

Bear Creek Diversion: Raw water diverted from Bear Creek is conveyed 1.9 miles by gravity via a 16-inch diameter pipeline to storage in the Regulating Reservoir (50 ac-ft), which is located north of intersection of Bummerville Rd and Winton Rd; from this reservoir, raw water is then conveyed 0.5 miles via pipeline to the Water Treatment Plant (on Smitty Ln). The Regulating Reservoir allows the flow of raw water to be controlled as needed to operate the water treatment plant according to daily water demands. As permitted by the State on Sept. 7, 1967, the Bear Creek water right allows for diversion of up to 4-cfs (up to 1,830 ac-ft annually) and annual storage of up to 150 ac-ft (between December 1st and May 30th).

Wilson Dam/Lake: Is a 25 ac-ft earthen dam and reservoir on Bear Creek upstream of CCWD's diversion point. The dam was constructed sometime around 1951 on an easement on land owned by a prior logging company, which is now owned by SPI. The dam is currently non-operational due to a large sinkhole in the middle of the dam's upstream face that first appeared in early 1991. Since that time, there has been an on-going discussion regarding the pros and cons of decommissioning the dam versus repair and restoration of the dam and lake. As the dam is instream, subject to environmental concerns and other considerations such as potential liability to the District, its future must be addressed as part of whatever suite of projects are ultimately selected by the District to provide for the water supply needs of the community into the future.

Middle Fork Diversion: CPUD owns and operates Schaads Reservoir having storage capacity of more than 2,400 ac-ft with pre-1914 senior water rights. CCWD has an agreement with CPUD for water purchase of up to 200 ac-ft annually from releases made to the Middle Fork Mokelumne River from CCWD's diversion point 5-miles downstream from Schaads. Raw water has been purchased from CPUD thirty-two (32) of past thirty-nine (39) years. In 2015, because of drought conditions and negligible flow in Bear Creek, greater than 80% of the annual raw water supply was diverted via the Mokelumne River. In order to divert raw water from the Middle Folk to the water plant, the water is pumped via two pump stations at 200-gpm, 1.9-miles and uphill 500 feet in elevation. Using slightly more pumping effort, this raw water can be conveyed an additional 0.5 miles to the Regulating Reservoir for short term storage.

Planning Considerations

The West Point/Wilseyville/Bummerville System Improvements, Final Feasibility Report by HDR dated November 2004 was the last effort to evaluate water supply options and develop a capital program. Several recommended capital projects were completed including the Bear Creek raw water pipeline, West Point distribution system and clearwell improvements, and Bummerville storage tank replacement. Other recommendations have not yet been implemented such as repair of the Wilson Lake dam and replacement of the raw water pipeline from the Middle Fork pump station to the Water Plant. Also, the HDR plan stated enlargement of the Regulating Reservoir (from 50 ac-ft to 124 ac-ft) was feasible but not considered cost effective at that time.

More recently, CPUD is in the process of evaluating alternatives to use its senior water rights in Schaads to provide a more reliable water supply for its 5,400 customers in San Andreas and Mokelumne Hill, and avoid curtailments that limit diversion on the South Fork (which currently supplies Jeff Davis reservoir and water plant). A historic ditch that once transported water from Schaads to the South Fork has been non-operational for some time; as a solution, CPUD has been studying and looking for financial means to construct a new \$11 million pipeline somewhat following the same alignment as the original ditch. CCWD should consider if from a cost/benefit standpoint participating in the project is justified to either improve raw water supply reliability and/or water quality for the West Point system.

It is expected that CCWD will continue to use its water rights on Bear Creek to the maximum extent possible and to the extent that flows permit during the dry season. Also, CCWD will continue to purchase supplemental water from CPUD via the Middle Fork pump station to supply raw water during dry months and periods of drought. Given the last feasibility study and capital program for the West Point system were developed 12-years ago, and events of the 2015 drought have renewed concerns over water supply reliability and water quality, CCWD staff proposes to conduct an updated study and confirm and prioritize the next series of capital improvements. The study should consider criteria such as raw water source reliability and redundancy, existing water rights, raw water quality, service area growth estimates, engineering feasibility, capital and operating costs, energy efficiency and pumping costs, age/condition of existing facilities, environmental issues, etc.

Furthermore, the study provides an opportunity to address important questions and issues regarding the system such as: a) What options exist for the future of Wilson Reservoir and associated costs/benefits to the District in performing its mission b) What is the condition of the Middle Fork diversion facility, pump station and pipeline and do these facilities have sufficient capacity to meet current and future water demands for the community, c) Can specific projects improve source water quality such as increasing the size and capacity of the Regulating Reservoir, d) What are the associated costs for each option and what is the most efficient means of providing a reliable water supply and maintaining good water quality in the system, e) How might water resources projects proposed by CPUD also benefit CCWD customers and should we be working with CPUD with a common goal of developing these projects, and f) greater clarity on associated water right considerations. At this time CCWD staff is requesting comment and preliminary direction from the Engineering Committee.

Financial Considerations

Funding for the study would likely come from the West Point Water Expansion Fund and the Water Resources Department Program Budget.

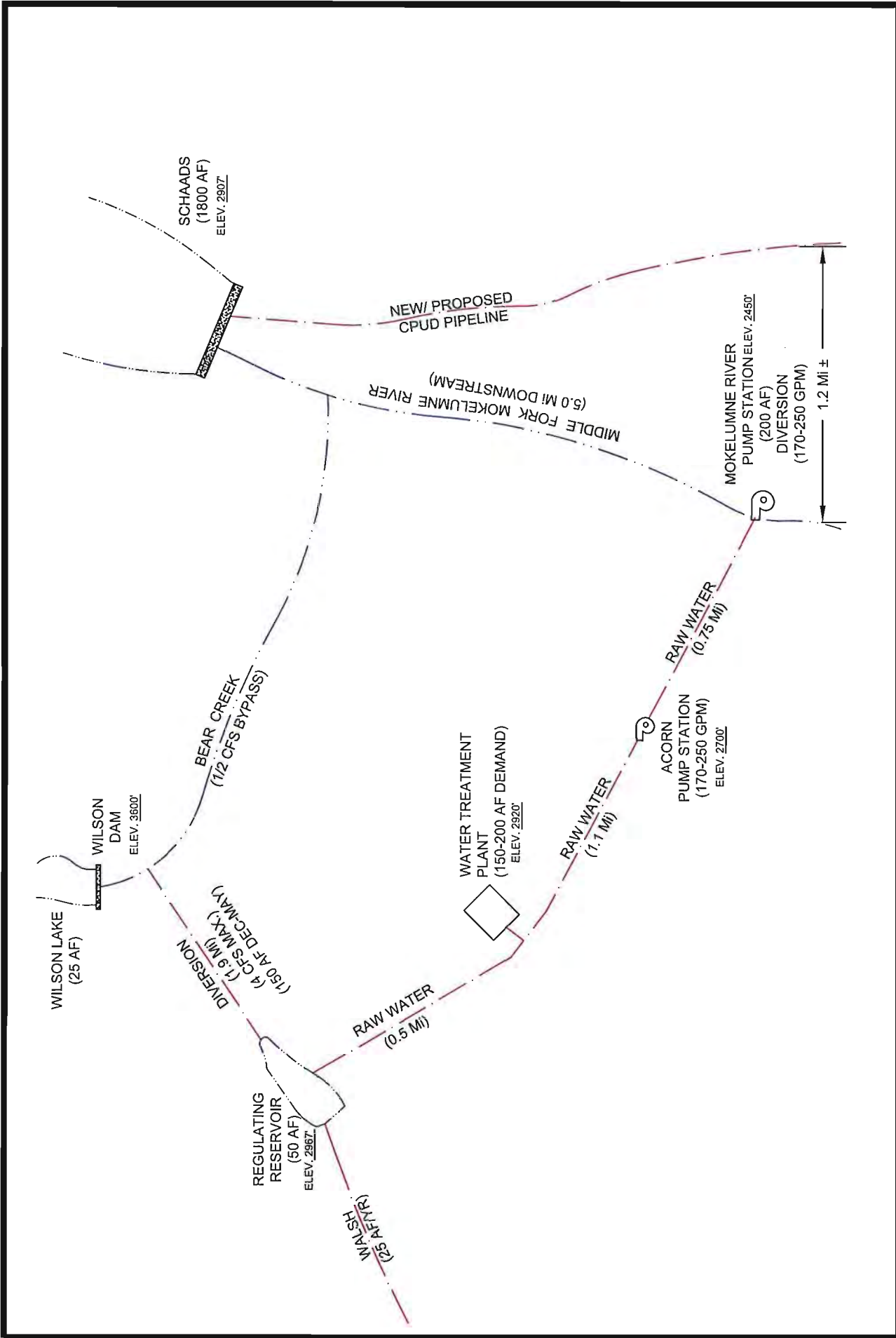


FIGURE 1
WEST POINT WATER SYSTEM
RAW WATER SUPPLY


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WATER DISTRICT
 120 TOMA COURT
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Agenda Item

DATE: August 9, 2016

TO: Engineering Committee

FROM: Joel Metzger, PIO/Customer Relations Manager 

SUBJECT: Review of Suspension of Service Policy

RECOMMENDED ACTION:

Information only.

SUMMARY:

Per customer feedback, staff is reviewing the District's suspension of service policy. According to current policy, a suspension of service can only be granted by the general manager under these specific circumstances:

- Damage to 75% or more of the structure that renders the structure uninhabitable.
- Issuance by a government agency of a "non-occupancy" order for a structure.
- Other circumstances beyond personal control of an owner that prevents habitation of a structure or use of the District water and/or wastewater systems for at least six (6) months.

Customers who meet these conditions must suspend both water and wastewater services for a minimum of six months, but not to exceed two years. If the District finds evidence that services have been used during that time, the property owner will be responsible for the monthly charges that would have been billed during the suspension period.

It has come to the attention of staff that, in some cases, property owners and contractors may require access to water during the process of repairing a damaged house. Customers have requested the option to allow water service to be unsuspended during reconstruction, while continuing to keep sewer services suspended until the house is approved for occupancy by the County Building Department. Staff is reviewing the policy to determine if it would be appropriate to recommend changes.

FINANCIAL CONSIDERATIONS:

None at this time.

*Attachment: CCWD Rules and Regulations Governing Water & Wastewater: Article III, Sections D and E
- Resolution 2010 – 78*

Calaveras County Water District
Rules and Regulations Governing Water & Wastewater: Article III, Sections D and E

D. Suspension of Services. The District will not allow suspension of monthly water and/or wastewater charges under normal circumstances unless one of the following has occurred to a residential property owner:

- Damage to 75% or more of the structure that renders the structure uninhabitable.
- Issuance by a government agency of a “non-occupancy” order for a structure.
- Other circumstances beyond personal control of an owner that prevents habitation of a structure or use of the District water and/or wastewater systems for at least six (6) months.

Disconnection of water and wastewater services as a result of non-payment of fees by owner does not cause suspension of monthly service fees covered by this policy. The suspension period shall be a minimum of six (6) months but may not exceed two (2) years. Such suspension shall require the approval of the District’s General Manager. The Suspension shall cover all services provided by the District, both water and wastewater, for the same duration.

The owner must notify the District at least forty-eight (48) hours (excluding weekends and Holidays) prior to the reconnection of the services. If an owner does not establish a reconnection within two (2) years, automatic termination of the suspension will occur and monthly service and consumption charges will be reinstated.

If any District facilities are found to be in use during such time as service has been suspended, owner will immediately become liable for the monthly water and wastewater service and consumption charges that would have been billed during the suspension period.

E. Termination of Services. Termination of water and/or wastewater services to a property is not allowable under this policy.

Resolution 2010-78
November 23, 2010

RESOLUTION 2010 - 78

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE CALAVERAS COUNTY WATER DISTRICT**

**AMENDING THE DISTRICT RULES AND REGULATIONS
GOVERNING THE FURNISHING OF WATER AND/OR WASTEWATER
SERVICES - ARTICLE III, SECTION 21E**

WHEREAS, the Board of Directors of the CALAVERAS COUNTY WATER DISTRICT adopted the Rules and Regulations Governing the Furnishing of Water and/or Wastewater Service to Consumers on December 7, 1954; and

WHEREAS, the Board added Section 21D - Suspension of Services, and Section 21E - Termination of Services, to Article III by Resolution No. 99-56 on October 13, 1999; and

WHEREAS, the Board added Section 21F -- Foreclosure Abatement, to Article III by Resolution No. 2008-36 on May 21, 2008; and

WHEREAS, for the purpose of updating said policy, amendments to the current policy have been considered by the Board.

NOW, THEREFORE BE IT RESOLVED, that the Board of Directors does hereby rescind in its entirety Section 21E of Article III of the Rules and Regulations Governing the Furnishing of Water and/or Wastewater Service, adopted by Resolution No. 2008-36 on May 21, 2008, and any subsequent resolutions or amendments thereto.

BE IT FURTHER RESOLVED, that Section 21E of Article III of the Rules and Regulations Governing the Furnishing of Water and/or Wastewater Service is to be replaced by the following and so incorporated into Article III, is hereby approved by the Board of Directors and shall become effective immediately:

21E – Termination of Services. Termination of water and/or wastewater services to a property is not allowable under this policy.

BE IT FURTHER RESOLVED, that the remainder of the Rules and Regulations Governing the Furnishing of Water and/or Wastewater Service to Consumers adopted December 7, 1954, and thereafter amended shall remain in full force and effect.

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PASSED AND ADOPTED this 23rd day of November 2010 by the following vote:

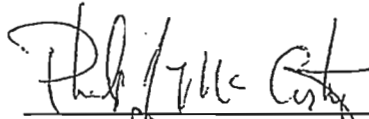
AYES: Directors Dean, Stump, Dooley, Davidson, and McCartney

NOES: None

ABSTAIN: None

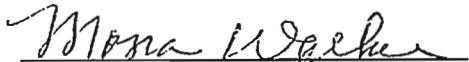
ABSENT: None

CALAVERAS COUNTY WATER DISTRICT



Philip J. McCartney, President
Board of Directors

ATTEST:


Mona Walker, Clerk to the Board