

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

September 17, 1993

To: Board of Directors (Water Problems Committee--Action)

From: General Manager

Subject: Informal Approval of Concurrent Annexation of Annexation No. 40 to Calleguas Municipal Water District and The Metropolitan Water District of Southern California

Report

By letter dated August 20, 1993, Calleguas Municipal Water District (Calleguas) has requested informal approval of the concurrent annexation of an uninhabited area designated as Annexation No. 40 to Calleguas and The Metropolitan Water District of Southern California (Metropolitan). This annexation area comprises a gross area of approximately 54.06 acres of which approximately 1.49 acres are located within public streets leaving a net area of 52.57 acres.

The proposed annexation area shown tinted red on the attached map is located in the northwest area of Oxnard, west of Patterson Road and south of Gonzales Road. The present use of the property was until Spring 1993, a lemon grove. This property which is owned by Oxnard Union High School District is intended to be developed as Oxnard High School. This site will replace the existing Oxnard High School which must relocate from its current location due to an air safety hazard. The current site is 1700 feet from the end of the runway of the Ventura County Airport in Oxnard.

Calleguas has submitted a Plan (included as Attachment A) for Implementing Water Use Efficiency Guidelines (Plan) pursuant to Section 3107 of Metropolitan's Administrative Code. Staff has reviewed the Plan and finds that it adequately addresses the requirements of the guidelines. Calleguas' Plan states that the projected annual water demands for this proposed development will be approximately 107.6 AFY.

The annexation charge has been calculated pursuant to Section 3300 of Metropolitan's Administrative Code. Utilizing the \$2,156.00 per acre rate and the sum of \$5,000.00 for processing costs, the annexation charge amount is \$118,340.92.

This annexation is subject to the provisions of the California Environmental Quality Act (CEQA). CEQA will be complied with prior to the time that formal approval of this annexation is requested from Metropolitan. At that time, as required by CEQA, your Board will be requested to review and consider pertinent environmental documentation.

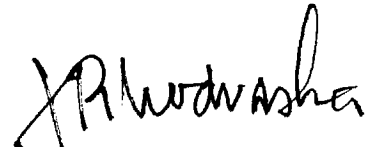
Board Committee Assignment

This letter is referred for action to the Water Problems Committee because of its authority to review and consider requests for annexation, pursuant to Administrative Code Sections 2481(g) and 3102.

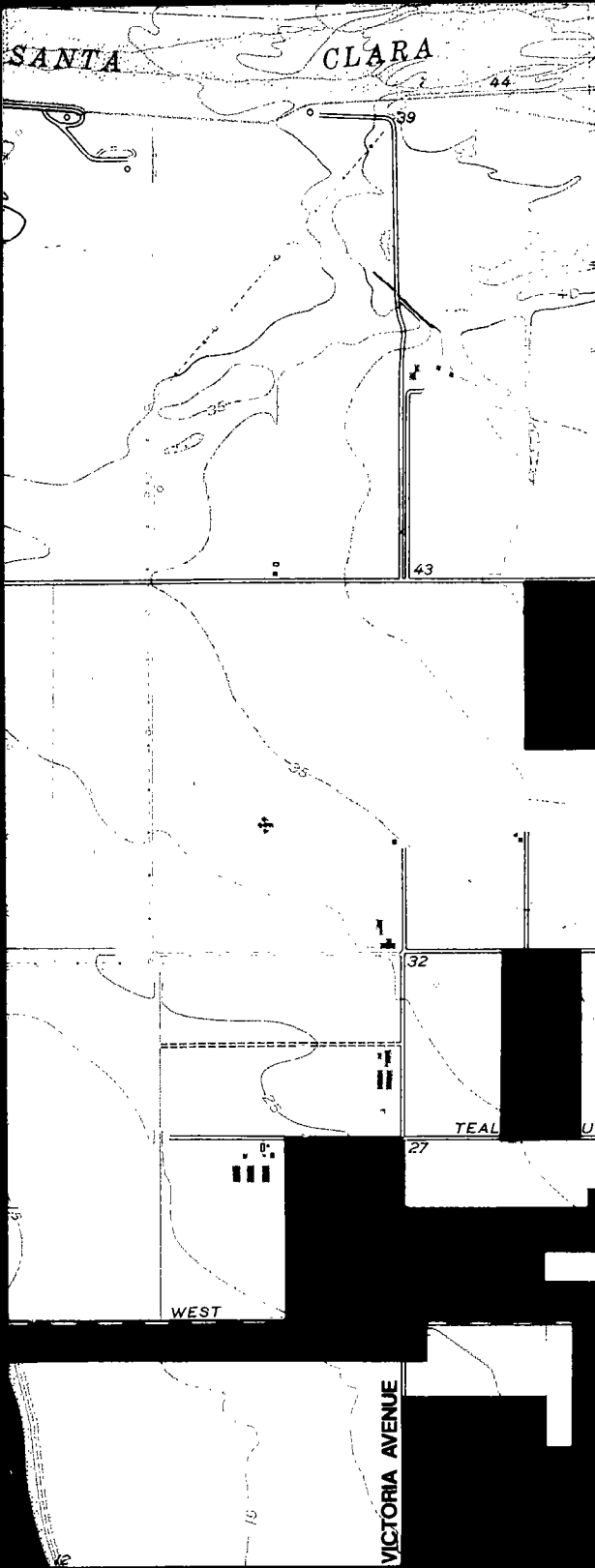
Recommendation

WATER PROBLEMS COMMITTEE FOR ACTION.

It is recommended that your Board and any committees acting upon this request: (1) approve the Plan for Implementing Water Use Efficiency Guidelines for this proposed annexation; and (2) give informal approval for the concurrent annexation of Annexation No. 40 to Calleguas and Metropolitan conditioned upon a cash payment to Metropolitan of the annexation charge of \$118,340.92 if completed by December 31, 1993, and at the then applicable rate if the annexation is completed after December 31, 1993, subject to such terms and conditions as may be fixed by your Board in granting formal consent to such annexation when a request therefor has been received.

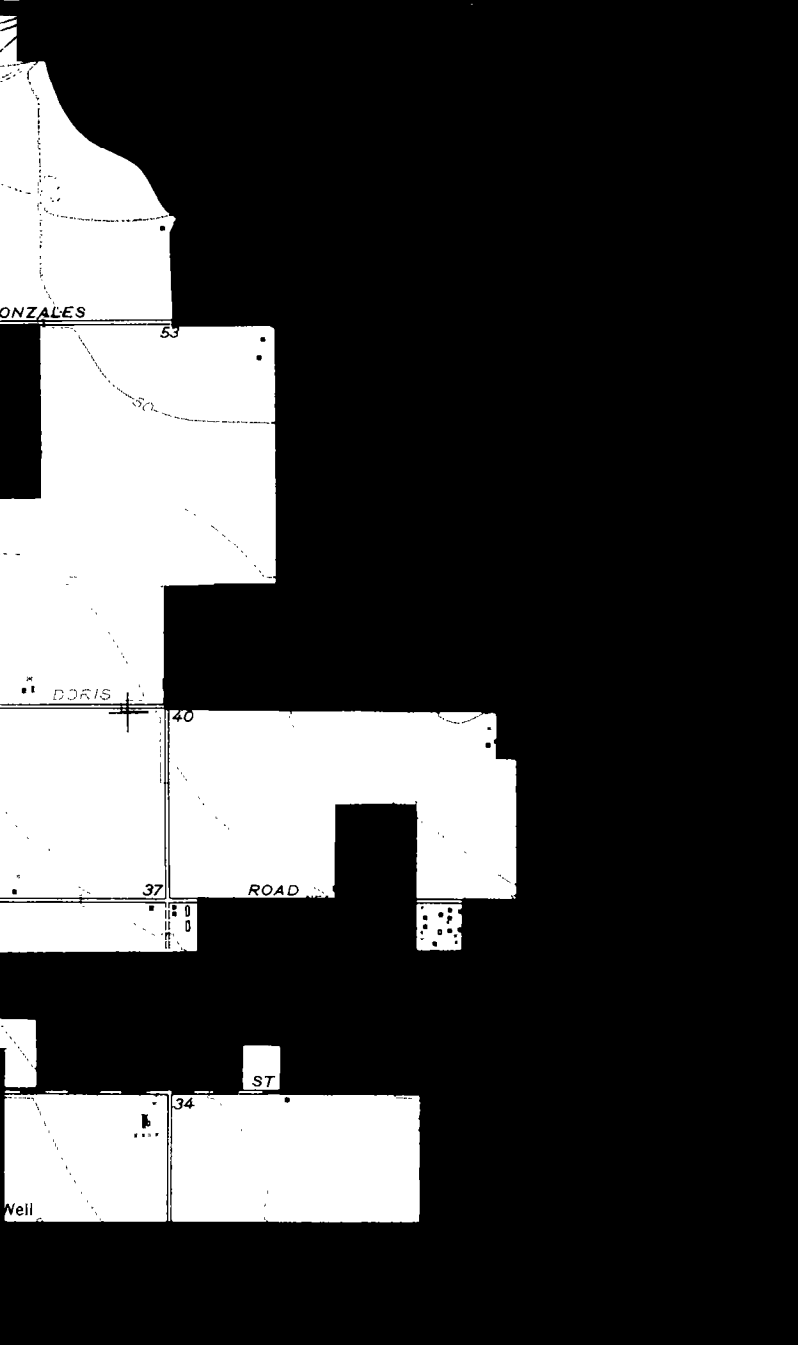


John R. Wodraska



**PROPOSED ANNEXATION NO. 40
TO CALLEGUAS MWD**

CALLEGUAS MUNICIPAL WATER DISTRICT



IMPLEMENTATION PLAN

WATER USE EFFICIENCY GUIDELINES FOR THE ANNEXATION OF OXNARD UNION HIGH SCHOOL DISTRICT, HIGH SCHOOL, NORTHWEST, TO CALLEGUAS MUNICIPAL WATER DISTRICT AND METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

GENERAL DESCRIPTION OF ANNEXING AREA

Part of Parcel A, Subdivision No. 4, all of Parcel A, Subdivision No. 5, Rancho El Rio de Santa Clara, on Gonzales Road. Maps and legal descriptions are attached. 52.57 acres, total.

Present use of the proposed parcel to be annexed was, until Spring 1993, a lemon grove, zoned RA in the County jurisdiction.

The property involved in this annexation consists of 52.57 acres of a 79.49 acre parcel owned by the Oxnard Union High School District. A land division of the parcel, due to the current zone designation, is not possible, but the District intends to develop only the 52.57-acre area. The balance of the parcel is to remain in lemon production into the foreseeable future. The intent of this application is for annexing into the Calleguas service area. The Oxnard's City Council is on record in support of providing City water service to the 52.57-acre site.

ANNUAL WATER USAGE

The calculated annual maximum water demand for a campus serving 2,300 students and 180 faculty and staff for a year-round schedule (240 days per year) is estimated to be 35,078,400 gallons or 107.6 acre feet per year (AFY). In addition, approximately 29 acres of the site will be initially utilized for turf area and landscaping. This area will ultimately be reduced to approximately 24 acres.

Using a turf/landscaping factor of three (3) AFY, the project landscape water demand will be 87 AFY, making a total demand of 194.6 AFY. This is in contrast to the 1990 statistics for the on-site well, serving 222 acres of lemons, of 808.7 AFY. It is anticipated that this well will continue to be used for irrigation of the remaining 26.91 acres, and the adjacent 143 acres for a total of 169.91 acres. Lemon production requires approximately three (3) AFY per acre, depending on the density of the soil. Therefore, the continuing demand on the existing agricultural well is anticipated to be 509.7 AFY.

The City of Oxnard presently receives treated water from Calleguas, and local ground water from United Conservation District, and blends this water at a two-to-one ratio; MWD/Calleguas water with local water respectively. The Oxnard Union High School District, Northwest campus, would receive the same blend, thus requiring 71.7 acre feet from MWD/Calleguas, to blend with 35.9 acre feet of local water. The quality of local water supplies available is not adequate to meet the needs of the City without blending.

CALLEGUAS WATER MANAGEMENT

PEAK WATER USAGE

Bard Reservoir

Calleguas owns and operates Bard Reservoir, which has a capacity of 10,500 acre feet of water. Calleguas' system sets flows based on past system averages for its service area from MWD for a given 24-hour period and meets peak daily water demands from Bard Reservoir.

Seasonal Storage

Calleguas is presently constructing the first of five wells that are planned to be built within the North Las Posas Basin. Each well is designed to inject an estimated 1,000 acre-feet of pre-treated water during the winter months for storage through MWD's seasonal storage program, and will then be extracted during the summer peak months, thereby offsetting peaking from MWD's system. Storage of 5,000 acre-feet of water would represent a six percent demand reduction by Calleguas from MWD through the peak months based on current water demands.

The Cities of Oxnard and Camarillo, and Camrosa Water District have implemented a similar program within their service areas that have significantly reduced summer peaking off of Calleguas' system.

High and Low Flow Penalties

In 1982, Calleguas revised Ordinance No. 12 (water service) to include a penalty to its purveyors for peaking off Calleguas' system. In 1987, Calleguas included a penalty based on low flow. Both penalties were imposed on the purveyor to direct their responsibility to increase water storage within their service areas.

Local Area Water Management

Water demands (peaking) from the MWD/Calleguas system can be effectively managed through the interconnection systems of Calleguas and the City of Oxnard.

Several of Calleguas' purveyors extract water from the local ground water basin within Calleguas' service area. In the event of a curtailment of water that is longer in duration than previously stated, Calleguas would be able to request its purveyors to increase their production.

The Oxnard distribution system has the ability to increase water deliveries from several sources to offset peaking:

- Seasonal storage ground water extraction from the upper Oxnard aquifer
- Ground water extraction from the Fox Canyon aquifer
- Direct delivery from the United Water Conservation District
- Drawing from the 18 million gallon terminal storage Springville Reservoir which is owned by Calleguas

The City of Oxnard has completed its third year of the Seasonal Storage Program. During the third year of participation, Oxnard directly injected 1,211.6 acre feet of water during the winter months, and will expend the stored water during the peak summer months.

WATER CONSERVATION

Additional water demands placed on MWD will be minimized by incorporating the following conservation measures.

Calleguas:

Calleguas participates in the Ventura County Water Conservation Management Plan, which is the only Countywide water conservation program in the State. This program is well recognized throughout the State as a positive effort for water management. The program is funded by Calleguas, two other water wholesalers in Ventura County, and the County of Ventura.

- Urban water conservation measures include landscape, educational, commercial/industrial and public information programs.
- Agriculture water conservation measures include educational activities and On-farm Conservation Measures Coordination.

Calleguas also participates in the Mobile Irrigation Laboratory Program of Ventura County, which is funded by the State Department of Water Resources, Special Districts, MWD, Calleguas, and two other water wholesalers in Ventura County. The program provides training courses and on-site audits of irrigation systems for large turf areas and agriculture to maximize efficient use of water for irrigation.

The Board of Directors of Calleguas adopted Resolution No. 772, requiring installation of ultra-low water consumption plumbing fixtures in new construction.

Calleguas also provides to its purveyors residential water conservation kits and literature.

Annexing Area:

The Oxnard Union High School District will comply with State standards for water-efficient plumbing fixtures. These include toilet fixtures that are water-conserving as defined by ANSI Std. No. A112.19.3 reduced-flow shower heads, lavatory faucets and sink faucets, self-closing valves on drinking fountains and faucets, pipe insulation on hot water lines, etc.

RECLAIMED WATER

Calleguas:

The Board of Directors of Calleguas adopted Resolution No. 773, promoting the use of reclaimed wastewater supplies. Calleguas requires that its purveyors develop the use of reclaimed wastewater for green belts and large turf irrigation. At present, approximately 869 AFY of reclaimed wastewater is sold to golf courses within Calleguas' service area with an additional 1,500 AFY to be made available in the next two years.

Calleguas' Board of Directors have approved the construction of a reclaimed water line in the Oak Park/North Ranch area. It is anticipated that upon completion of the project, approximately 1,300 acre feet of reclaimed water will be delivered to the area. The first phase of construction is proposed for the Fall of

1992 with completion by the end of 1993. Calleguas will also pursue reclamation projects in conjunction with its purveyors throughout their service areas.

Annexing Area:

The City of Oxnard's Wastewater Treatment Plant is not presently used for water reclamation and reuse. The City Council has directed that water reclamation be a priority and the City will be issuing a Request for Proposal (RFP) for use of reclaimed water this year.

WATER DELIVERY CURTAILMENT

Calleguas:

Calleguas has an integrated water delivery system which allows all areas in its service area to receive water from two alternative sources of water. The main source of water supply is from MWD via Jensen Treatment Plant and Distribution System. The second source of water is from storage in Bard Reservoir, used for system peaking and emergency storage. Bard Reservoir's storage capacity (10,500 acre feet) is adequate to supply water for total system usage for periods of 15 to 20 days at maximum demands during the summer and in excess of 45 days during winter months. In addition to Bard Reservoir, Calleguas has seven reservoirs that has a combined storage of 42 million gallons.

Several of Calleguas' purveyors pump water from the local ground water basin within Calleguas' service area. In the event of an emergency, curtailment of water from MWD as a result of a major facility failure that is longer in duration than previously stated, Calleguas could impose a water rationing plan and request its purveyors to increase their groundwater production to extend the District's reservoir reserves for other areas that do not have groundwater supplies.

Annexing Area:

The Oxnard Union High School District will be served by the City of Oxnard which, as a purveyor of Calleguas water is subject to the conservation measures detailed above. Oxnard has access to alternative sources of supply through extraction of groundwater or purchase directly from the United Water Conservation District.

CAPITAL CONSTRUCTION CHARGE

In 1980, Calleguas implemented a capital construction charge for all new development within its service area. The charge was established to raise the funds necessary to build additional facilities required for expansion of Calleguas' service area. Additionally, Calleguas assessed the capital construction water rate charge to its purveyors on water usage to augment the capital construction program. Calleguas' Master Plan approved by the Board of Directors identified the facilities that will be constructed to meet its future water demands.

URBAN CONSERVATION BEST MANAGEMENT PRACTICES

To the extent practicable to do so, within the limits of its authority and jurisdiction, Calleguas Municipal Water District intends to apply the Urban Conservation Best Management Practices as set out in Attachment A to this Implementation Plan.

WATER USE EFFICIENCY GUIDELINES

To the extent practicable, the City of Oxnard and Oxnard Union High School District shall comply with the following requirements of the Metropolitan Water District of Southern California (hereinafter "Metropolitan"), and Calleguas Municipal Water District (hereinafter "Calleguas"):

A. With respect to the approximately 29 acres of the site which will be initially utilized for turf area and landscaping and which will ultimately be reduced to approximately 24 acres, well water will be used for irrigation to the extent practicable. To the extent that the use of such well water is not practicable, reclaimed wastewater or other non-potable water shall be used on such turf. If such supplies do not presently exist, a dual distribution system shall be constructed to accommodate such supplies when they become available in the future.

COMPLIANCE

A. Calleguas accepts the responsibility for assuring compliance with the provisions of Metropolitan's Water Use Efficiency Guidelines as indicated in this Plan and shall report to Metropolitan regarding such compliance.

Dated: September 17, 1993.

CALLEGUAS MUNICIPAL WATER DISTRICT

By Donald R. Kendall
Dr. Donald R. Kendall

ATTACHMENT A
URBAN CONSERVATION BEST MANAGEMENT PRACTICES

1. Interior and Exterior Residential and Governmental/Institutional Water Audits
- 2a. Enforcement of ULFT Requirement in New Construction Beginning January 1992
- 2b. Support of State and Federal Legislation Prohibiting Sales of Toilets that Use More Than 1.6 Gallons per Flush
- 2c. Residential Plumbing Retrofits
3. Distribution System Water Audits, Leak Detection and Repair
4. Metering with Commodity Rates for All New Connections and Retrofit of Existing Connections
5. Large Landscape Water Audits and Incentives
6. Support of and Compliance with "Water Conservation in Landscaping Act" (AB325) for Commercial, Industrial, Institutional, Governmental and Multifamily Developments
7. Public Information
8. School Education
9. Commercial and Industrial Water Conservation
10. New Commercial and Industrial Water Use Review
11. Conservation Pricing
12. Support of and Compliance with "Water Conservation in Landscaping Act" (AB325) for Single Family Homes
13. Enactment and Enforcement of Water Waste Prohibition Ordinances
14. Designation of a Water Conservation Coordinator
15. Financial Incentives
16. Ultra Low Flush Toilet Replacement