QUARTZ HILL WATER DISTRICT
URBAN WATER MANAGEMENT PLAN
NOVEMBER 1990
This is the Urban Water Management Plan for Quartz Hill Water District. This Plan has been prepared in compliance with Assembly Bill 797 of the 1983-1984 Regular Session of the California Legislature (Water Code Section 10610 et. seq.). This Plan will be submitted to the California Department of Water Resources within 30 days of approval by the Board of Directors.
QUARTZ HILL WATER DISTRICT
NARRATIVE DESCRIPTION OF AGENCY
AND SERVICE AREA

Quartz Hill Water District was organized in May 1954. The District is governed by an elected Board of Directors.

The District has 52 miles of water mains and is a gravity fed system with 3 booster stations, five wells, and 6,150,000 million gallons of storage capacity. The number of services in the District increased sharply last year.

The area served by Quartz Hill Water District consists of quarter acre, one-half acre and one acre parcels. Quartz Hill has an active Homeowners Association, whom are trying to preserve the rural life style while coping with rapid growth and smaller lot sizes. The District serves mostly residential area with one park and two public schools in the system.

The elected officials of this District have adopted policies, Resolutions and Ordinances regarding conservation, waste water and water safety. Employees are instructed in water conservation and provide the public with up-to-date information upon request.

The District has experienced a rapid population increase in the last five years. However, building in the District area has now come to an abrupt halt.
QUARTZ HILL WATER DISTRICT
WATER MANAGEMENT
ACCOMPLISHMENTS OF LAST FIVE YEARS

WATER METERS

Quartz Hill Water District has a policy of replacing older water meters. Directors approved the replacement of 1,000 meters this fiscal year. Each service in the District is individually metered. District water losses for last year were under ten percent (10%).

WATER RATES

The elected officials of the District believe in providing the best possible service for the lowest possible rates. A rate reduction was voted in June of 1989. However, water rates are scheduled to be reviewed in December of 1990.

WATER CONSERVATION KITS

Quartz Hill Water District provided each water user to do so as each high user or water use complaint is registered. Water saving tips for landscape irrigation are given to each water consumer upon request.

DISTRICT PIPELINE

In June of 1990 the last 4" steel main was replaced. The District's smallest main is now 6" (A.C. pipe). Our Board of Directors also adopted a policy in 1986 that only polyvinyl chloride (PVC) pipe be used (except cement coated steel when required).

MELLO-ROOS BOND ISSUE

In a special election held March 1988, a $3,500,000 bond was passed (in and for "undeveloped area of the District). A backbone water system has been installed, along with another turn out from Antelope Valley East Kern Water Agency, to provide service to this undeveloped area. The bonds will be paid by property owners in this area only, not affecting water users already in the District.

The District also put on line a new well, pump station, and 2 Million Gallon Storage Tank to assist in serving the undeveloped Mello-Roos area.
QUARTZ HILL WATER DISTRICT
WATER SOURCES AND SUPPLY OUTLOOK

Quartz Hill Water District purchases water from Antelope Valley East-Kern Water Agency (State Water, 37% of 1989 total use), and Los Angeles County Waterworks District No. 4 (18% of 1989 use). Quartz Hill Water District wells pumped 45% of 1989 use.

A random check of residential services showed water usage down 10% on a volunteer basis for summer of 1990.

The Board of Directors will review Water Supply frequently and upgrade/implement Plan as needed.
CROSS-CONNECTIONS

In May 1988, an Ordinance Instituting a Cross-Connection Control Program To Protect The Public was adopted. In May 1989, a Cross Connection Program was completed with annual and semi-annual reviews to update our program.

WASTE WATER, DROUGHT AND CONSERVATION

Quartz Hill Water District's Ordinance No. 57, Section 9-3, sets District policy on Waste Water. Board of Directors Drought Committee has implemented a Water Supply Shortage Plan.

WELLS

The District currently has in operation five wells and Board is currently considering an additional well site at this time. One of the well's now in use is currently natural gas. Plans have been finalized to change gas well to electric, using gas engine back-up in case of emergency.
WATER SUPPLY SHORTAGE PLAN

STAGE 1A
INITIAL WATER ALERT

TRIGGERING LEVEL - SITUATION OF CONCERN

Water supply condition locally and/or state wide exist that cause the Board of Directors (B.O.D.) of the Quartz Hill Water District (Q.H.W.D.) to feel there is reason for concern at the present level and/or that the situation may deteriorate further.

DISTRICT ACTION

To relay to the users of the District that there exist a condition where the B.O.D. feels the users should voluntarily:

1. become water aware.

and/or 2. be aware the possibility exists that situation could deteriorate further.

3. take precaution to not waste water.

USER REQUIREMENTS - VOLUNTARY

Users should become water aware and implement water conservation techniques on a voluntary basis.

All users should take voluntary precaution to eliminate water waste.

POSSIBLE SPECIFIC VOLUNTARY ACTION

Precautions should be taken to eliminate water waste:

1. especially in landscape irrigation.

2. in the elimination of any water waste onto the streets (nuisance water)
TRIGGERING LEVEL - SITUATION DETERIORATING

When drought or other water supply conditions exist (either locally or state-wide) that the Q.H.W.D. - B.O.D. determine that:

1. conditions have deteriorated that the move from Stage 1A to Stage 1B is prudent,

AND/OR

2. that direct entry into Stage 1B is prudent,

AND/OR

3. that voluntary conservation measures should be requested of District users,

AND/OR

4. there is reason to believe the situation is likely to deteriorate further.

DISTRICT ACTION

1. Stop use of construction water.
2. Distribute information of Stage 1B water alert to media and water users.
3. Determine those water conservation methods by users in a voluntary program that are prudent and reasonable to achieve a 10% water savings district-wide and provide that information to District users.
4. Request that users (especially those who have not already done so under Stage 1A) implement water conservation methods as requested by District.
5. Advise all water users that it is now mandatory that there be no further "water waste".

USER REQUIREMENTS

1. No further water waste will be allowed (that is water flowing into the streets known as nuisance water).
2. Users are requested to implement those water conservation methods as requested by District.

SPECIFICS

Water wasters are to receive water wasting notices. If the situation is not corrected after two notices, then penalties as provided or decided by the B.O.D. can be imposed.

The District B.O.D., with staff input, will set up base (called Base) parameters against which water savings percentages will be compared.
TRIGGERING LEVEL - SITUATION SERIOUS

Triggering level will be reached when Q.H.W.D. - B.O.D. determine that:

1. the water situation relative to supply capability or expected supply capability has or is likely to deteriorate to the point where it is prudent to move to a Stage 2A water warning.

and/or

2. it is prudent and reasonable that initial mandatory conservation measures should be required of District water users.

3. there is reason to believe the situation is likely to deteriorate to the next water warning stage (2B)

DISTRICT ACTION

1. District will distribute information on Stage 2A water warning to the media and the District water users.

2. District B.O.D. (with staff assistance) will determine the water conservation methods prudent and reasonable that will be implemented to reduce water usage by 15% overall, District-wide as regards to Base.

3. District will require (mandatory) users to implement water conservation methods adopted by B.O.D. to reduce water usage by 15% overall.

4. District B.O.D. will determine types of and number of warnings, as well as, charges, fines or penalties to be assessed against those violating District requirement relative to water conservation.

USER REQUIREMENTS

1. Users will be required to implement water conservation plan by methods determined by B.O.D. or by alternate methods that will achieve the same desired results.

2. Users violating requirements will be subject to warnings and/or penalties as adopted or levied by the B.O.D.

3. A penalty appeal procedure can be adopted by the B.O.D. and/or penalty appeals can be heard by the B.O.D.

SPECIFICS

1. Those users who have previously adopted conservation methods will be given recognition (credit) for their efforts.

2. Users will be given reasonable leeway in deciding to what degree they will utilize the methods as determined by the B.O.D. or alternate methods towards achieving the 15% reduction goal.
TRIGGERING LEVEL - SITUATION INCREASINGLY SERIOUS

Triggering level will be reached when Q.H.W.D. - B.O.D. determine that:

1. the water situation relative to supply capability or expected supply capability has or is likely to deteriorate to the point where it is prudent to move to a Stage 2B water warning.

and/or

2. it is prudent and reasonable that further mandatory conservation measures should be required of District water users.

3. there is reason to believe the situation is likely to deteriorate to the next water warning stage (3).

DISTRICT ACTION

1. District will distribute information on Stage 2B water warning to the media and the District water users.

2. District B.O.D. (with staff assistance) will determine the water conservation methods prudent and reasonable that will be implemented to reduce water usage by 25% overall, District-wide as regards to base.

3. District will require (mandatory) users to implement water conservation methods adopted by B.O.D. to reduce water usage by 25% overall.

4. District B.O.D. will determine types of and number of warnings, as well as charges, fines or penalties to be assessed against those violating District requirement relative to water conservation.

USER REQUIREMENTS

1. Users will be required to implement water conservation plan by methods determined by B.O.D. or by alternate methods that will achieve the same desired results.

2. Users violating requirements will be subject to warnings and/or penalties as adopted or levied by the B.O.D.

3. The penalty appeal procedure will be in effect.

SPECIFICS

1. Those users who have previously adopted conservation methods will be given recognition (credit) for their efforts, if applicable.

2. Users will be given reasonable leeway in deciding to what degree they will utilize the methods as determined by the B.O.D. or alternate methods towards achieving the 25% reduction goal.
STAGE 3 WATER EMERGENCY

TRIGGERING LEVEL – SITUATION CRITICAL

Triggering level will be reached at any time the District B.O.D. has determined a water emergency situation exists either short or long term.

In a Stage 3 water emergency B.O.D. action and determinations may well be reactive to a critical situation. Therefore, the manager may initially call a Stage 3 water emergency if the manager feels that a B.O.D. meeting cannot be organized to reasonably deal with a critical situation but the B.O.D. meeting is to be convened as soon thereafter as reasonably possible.

DISTRICT ACTION

1. District B.O.D. will assess the situation (with staff input) and develop initial methodology and plans for handling the emergency.
2. District will advise media and District users of the Stage 3 water emergency and the reason for the emergency, as well as, initial plans for dealing with same.
3. District B.O.D. will require water users to implement water emergency plans.
4. District B.O.D. will develop methodology to police compliance as well as a system of warnings (if applicable) and charges, fines or penalties.
5. District B.O.D. with staff input will decide which services may have to be curtailed or shut down.
6. Any appeals to be heard directly by the B.O.D.

USER REQUIREMENTS

1. Users will be required (mandatory) to comply with all District requirements relative to a Stage 3 water emergency.
2. Users violating requirements will be subject to warnings and penalties as adopted by the B.O.D.
3. All appeals to be heard directly by the B.O.D.
4. If a situation of an appeal is serious enough that the manager feels it needs to be addressed immediately, the District manager may do so and then convene a B.O.D. meeting as reasonably soon as possible thereafter.

SPECIFICS

The B.O.D. may have to adopt water conservation requirements in excess of 25% water usage reduction overall District-wide in relationship to Base. Some services or sections may have to be curtailed or shut down.
In a Stage 3 water emergency, B.O.D. action and determinations may well be reactive to a critical situation.
QUARTZ HILL WATER DISTRICT

WATER SUPPLY SHORTAGE PLAN

Cooperation and information sharing with A.V.E.K.

Because AVEK is our principal purveyor of state water, their ability to supply Q.H.W.D. is of great importance in our ability to meet the ongoing needs of the District.

Therefore, their cooperation on the sharing of information with the Q.H.W.D. is vital and the Q.H.W.D. should seek ways and means of obtaining and considering such information, especially in consideration in regards to water alerts, warnings and emergencies.
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**Appendix III Water Use Projections**

**1990 Water Demand Plan Update**

**Additional Water Demand**