



WATER LINE



A PUBLIC INFORMATION SERVICE OF THE WALNUT VALLEY WATER DISTRICT

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COMMITMENT TO HIGH QUALITY SERVICE

Since its inception 52 years ago, the District has remained firmly committed to its mission of providing a high quality water supply at the lowest possible price and to ensuring that it meets the water supply needs of the nearly 100,000 people it proudly serves.

In keeping with its firm commitment of providing high quality service, the District continuously strives to develop and implement programs that will best serve the needs of its consumers. This edition of Water Line will provide an overview of some of the District's accomplishments and a few of the new and on-going water system improvement projects performed during 2004.

MEETING REGULATORY REQUIREMENTS

It goes without saying that the District's primary responsibility is to provide a high quality, reliable water supply to its consumers. In meeting this challenge this past year, the District was faced with complying with numerous federal and state regulatory requirements. The District met these requirements when delivering 7.4 billion gallons of potable water to the residents and businesses within its service area and 592 million gallons of recycled water for landscape irrigation purposes.

The District has continued to work diligently to ensure the safety and quality of its water supply. During the calendar year 2004, the District collected 17,000 water samples. These samples were in addition to over 300,000 water samples collected and tested by Metropolitan Water District (MWD), the District's regional water importer, for the purpose of analyzing over 120 chemical parameters. The MWD tests are performed before the water even enters the District's storage and distribution system. In 2004, the District also completed a comprehensive Vulnerability Assessment that recommended security improvements to protect the District's water supply, distribution system, general infrastructure, and employees. Based on the recommendations in the report, the District developed an implementation plan for the security measures.

CONSUMER SERVICE

Radio Read Program - Meter reading is an ongoing func-

tion of the District to accurately account for the amount of water used at each residence or business in the District. Upon approval by the Board of Directors in 1997, the District began to streamline this labor-intensive program through the implementation of a new eight-phase automated radio read program. The new system has allowed the District to remotely read its consumers' water meters using state of the art radio frequency technology that has greatly enhanced meter reading efficiency.

During 2004, District personnel installed over 100 new residential radio read meters and upgraded 1,565 existing radio read meters with the latest technology, ensuring reliability for years to come. The overall project is nearly 70% complete with full-scale implementation projected for the end of 2006.

Sacrificial Anode Program - Initiated in 2002, the District's \$820,000 cathodic protection program reduces the number of service lateral failures occurring throughout its service area. The installation of the anodes is stabilizing the system and, when completed, will eliminate further corrosion of service lateral components that have failed from pinhole leaks. During 2004, District personnel installed 1,700 zinc anodes, which now provide the cathodic protection necessary to protect the life expectancy of existing service lateral components.



ENGINEERING/CAPITAL PROJECTS

In addition to the daily operational tasks required to provide a reliable, high quality water supply, the District also focuses a significant amount of its efforts and resources on capital facilities planning for current and future projects. The following is a brief summary of some of the major projects undertaken by the District during 2004:

Morning Sun Main Replacement - In 1995, a major landslide occurred in the Morning Sun Ave. area, causing damage to water, sewer, and storm drain infrastructure and necessitating the emergency installation of a temporary fire hydrant and above-ground pipelines. After years of work and monitoring to determine the stability of the landslide area, Los Angeles County engineers moved forward with final repairs to the street.

Conserve to the last drop...



At a cost of \$42,630 the District, in conjunction with final street repair work, installed permanent replacement pipe and facilities for those damaged by the landslide.

Recycled Well #3 - At a cost of \$173,668 a well was drilled and the casing installed at a new site located in Diamond Bar. In addition, in December of last year a contract was awarded in the amount of \$198,915 for the construction of the site improvements and pump assembly installation. In the spring of this year, the well will begin producing water from the Puente Basin for use in the District's recycled water system. The addition of this facility will provide a direct benefit to the District, as well as a regional benefit to southern California, as each gallon of water produced from the basin by this well will reduce a corresponding amount of water transported from distant sources.

North Side Line Replacement - In May of 2004, through an informal agreement with the Los Angeles County Sanitation Districts (LACSD), the District assumed management responsibility for the operation, maintenance, and regulatory compliance of the North Side Line. This 76-year old concrete pipeline conveys the District's sole source of recycled water from LACSD's water reclamation plant located in the city of Pomona. Over the past decade, numerous leaks along the length of this aging pipe have caused supply interruptions, subjecting the District to \$271,578 in extra costs to purchase more expensive potable water for use in its recycled water system to meet supply demands. The District replaced a portion of the existing main with a larger diameter pipeline in conjunction with improvements at Grand Ave. and Valley Blvd. A second contract for \$487,782 was awarded October 19, 2004 for Phase II of the main replacement project, extending the main further along Valley Blvd. to approximately one-half mile east of Grand Ave.

Diamond Bar Cast Iron Pipe Abandonment - At a cost of \$292,377 a portion of cast iron pipe located in Diamond Bar Blvd. was abandoned after a major leak proved that this section of pipeline was deteriorating rapidly. Through careful study and computer modeling, it was determined that the deteriorated section of pipe could be abandoned because a second existing parallel main could be connected which could adequately carry the required water flows. Most of the work, including the reconnection of mains, was done during off-peak daytime hours or at night to reduce traffic congestion in the project area.

Ridgecrest Reservoir - In October 2004 the District awarded a \$1,759,616 contract for its Ridgecrest Reservoir with construction scheduled to begin in January 2005. When completed and placed into service later this year, this reservoir will provide an additional 2 million gallons of storage to meet the demands and improve reliability of the District's 1050 pressure zone in Diamond Bar. The reservoir site, located in Diamond Bar, will be fully landscaped with trees to create a park-like area around the reservoir in accordance with the District's discussions with the area's residents and its "good neighbor" practice.

Valley Boulevard Street Improvements - In conjunction with City of Walnut roadway improvements, the District aban-

doned 8 valves and replaced 34 valves in Valley Blvd. between Suzanne Rd. and Fairway Dr. at a cost of \$214,556.

In addition, a new 8-inch water main was installed in the widened section of Valley Blvd. between Suzanne and Pierre Roads at a cost of \$71,801. The District funded the installation of this main so the work could be completed prior to the city's rehabilitation of the street, resulting in a substantial savings to the District. As future development occurs along this section of Valley Blvd., the District will be reimbursed for its costs by the developer.

Development Projects - During the year 2004, the District completed the installation of water improvements for two development projects and awarded one additional project as follows:

(1) **Tract 46801** - Installation of a new 6-inch water main for a housing development in Rowland Heights consisting of 1 fire hydrant and 10 metered services at a cost of \$72,697.

(2) **Tract 53612** - Installation of new 8-inch and 6-inch water mains for a housing development located in Rowland Heights consisting of 1 fire hydrant and 5 metered services installed at a cost of \$27,481.

(3) A contract was awarded for Grand Crossing Phase 4 for a \$1,636,492 project scheduled to be completed later this year. The project involves the installation of water system improvements for a 79-acre industrial development located within the city of Industry and includes the installation of over 5,000 feet of potable water mains, 3,488 feet of recycled water mains, 21 fire hydrants, 27 potable metered services, 8 recycled metered services, and 6 fire services.

These are just a few of many projects the District has been hard at work on for the past year as it continues to strive to improve the level and reliability of service to its consumers while meeting the need of growth and development within its service area. The District takes pride in its accomplishments and will continue its ongoing efforts to provide quality service to all of its consumers.

BOARD REORGANIZATION

The District held its annual reorganization meeting on December 21, 2004, at which time the Board elected the following officers:

Edwin M. Hilden, President
Division II, North Diamond Bar

Allen L. Wu, Assistant Treasurer
Election Division I, portions of Walnut and West Covina

Donald L. Nettles, First Vice President
Division IV, portions of Rowland Heights and Diamond Bar

Edward N. Layton, Director
Division III, South Diamond Bar

Keith K. Gunn, Second Vice President
Division V, portions of City of Industry, Pomona, Diamond Bar, and West Covina



District Board meetings are regularly held at 2:00 p.m. at the District offices on the third Tuesday of the month, unless noticed otherwise.

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