

Last Days of Phase II

The City of San Diego Water Department and Archer Western Contractors are nearing the last days of the \$17.3 million Miramar Water Treatment Plant Phase II Early Start Improvement Project. Improvements under this contract will allow the Miramar Water Treatment Plant to deliver 215 million gallons per day of treated water to its customers. The Water Department also completed the installation of a new 84-inch-diameter pipeline to convey treated water from the plant to the distribution system.

including the widening of Scripps Lake Drive, the new pedestrian entrance to the recreation area, and the expansion, paving and landscaping of the east and west parking lots. As part of the City's commitment to improving the community recreation area, the total number of paved parking spaces increased 22 percent from 216 existing spaces in the main lot to 264 spaces over the total site.

Construction also included the installation of a section of a 108-inch-diameter overflow pipe underneath the Lake Miramar walking path. This pipe drains the water used to wash the plant's filter media and also serves as a safety measure to prevent the plant from flooding by distributing any excess water into the lake. The pipe is also used to fill the lake with water brought to the plant for seasonal storage or to maintain the lake level at a level that will allow recreational boating and fishing.

Walking around the lake you may notice some of the additional improvements,



Aerial of Miramar Water Treatment Plant

The Water Department Capital Improvements Program is committed to creating a safe and reliable water treatment and distribution system with state-of-the-art facilities at the lowest possible cost to our customers.

Lake Facts

- The City of San Diego completed construction of the Lake Miramar Dam in 1960
- The Miramar Water Treatment Plant was put into commission in 1962
- At its maximum operating level, Lake Miramar contains 1,807 million gallons of water
- Lake Miramar is 103 feet deep

Upcoming Community Advisory Group Meeting

Wednesday, October 20, 2004 6:30 p.m. Scripps Ranch Library

Useful Water Department Phone Numbers

Project Information Line:	619-533-4679
Billing Information:	619-515-3500
Recycled Water Program:	619-515-3500
Drinking Water Questions:	619-668-3233
Water Pressure Problems:	619-527-7482
Report a Water Main Break:	619-515-3525
Lakes Recreation Program:	619-465-3474
Speakers Bureau:	619-533-6638
Group Jobs Information:	858-573-5081

This information is available in alternative formats upon request.

Printed on recycled paper.



Moving Forward the Next Phase

Construction on the third phase of the project began in September 2003. This phase, commonly known as

Concrete work at the new equalization basin.



Contract A, was awarded to Western Summit Constructors Inc. (WSCCI) for \$81.4 million. Contract A is scheduled for completion in the fall of 2007 and includes building a new rapid mix facility, installing new de-aeration basins, new and refurbished administration facility, a washwater recovery system and new water filters. Three additional construction contracts will follow Contract A, which will include construction of new flocculation and sedimentation basins, an ozone system, and general landscaping and paving. These improvements will increase the plant's capacity and reliability to meet the current and future water needs of the northern part of San Diego. The entire project is scheduled for completion in the fall of 2009.

Western Summit is currently working on constructing the new waste equalization basin and the new

de-aeration basin in the southeast corner of the treatment plant. The equalization basin is a holding structure for water used during the backwash and "filter-to-waste" cycle. This process typically accounts for 5-10 percent of the plant's total flow. From this basin it will be returned to Lake Miramar.

About 90 percent of the raw water delivered to the City's treatment plants travels from as far as the Colorado River or northern California. During its travel through pipelines, pump stations and conduits, large quantities of air may become entrapped in the form of micro-sized bubbles. The de-aeration basins allow us to remove this entrained air before it can disrupt treatment and adversely affect water quality. The new de-aeration facility will greatly enhance the water filtration performance.

Meeting the Needs of San Diego

The population of the City of San Diego is currently more than 1.3 million and is expected to grow to 1.9 million by 2030. In anticipation of this growth, the Water Department identified in its Strategic Plan for Water Supply¹ key investments in water treatment, storage and distribution to meet future water demands. The upgrades and improvements to the Miramar Water Treatment Plant are a major component of this plan.

The service area within the City that receives water treated by the Miramar Water Treatment Plant is 92,124 acres

¹The City of San Diego Water Department Long-Range Water Resources Plan (2002-2030) is available upon request. For your copy, please call the Public Information Line at (619) 533-4679.

New Restrooms at Lake Miramar

All visitors to Lake Miramar will soon be able to use the new restroom facility. This new, "state-of-the-art", fully accessible, family-style facility will provide four unisex cubicles that will contain sinks, toilets and enough room to change clothes.

Funded by the State of California Department of Boating and Waterways, the restroom will be constructed just a few feet from the existing restroom, but will be slightly rotated a bit to allow a better view of the lake from the parking area. It is anticipated that the facility will be fully operational by early fall 2004. Once the new facility is ready, the old restroom facility will be demolished and the area paved and landscaped.

To further improve the recreation area, the City's Disability Services Division has contributed \$81,000 to construct an accessible walkway

from the new restrooms and concession stand to the boat dock. The City is currently evaluating several design options and a formal presentation will be made to the Scripps Ranch Planning Group once more information is available. A new accessible walkway would meet all requirements of the Americans with Disabilities Act (ADA).

For more information on this project, please visit the Water Department on the Internet at www.sandiego.gov/water. You can also call our Public Information Line at (619) 533-4679.

Contractors working to install new restroom facility at Lake Miramar.



Miramar Water Treatment Plant Meters	
Irrigation	4,084
Commercial	7,031
Industrial	283
Governmental	229
Residential	126,002
TOTAL	137,629

The Miramar Water Treatment Plant Upgrade and Expansion Project is part of the Water Department's Capital Improvements Program to increase capacity and reliability to meet current and future water needs. These

improvements will ensure our water will meet all current and future drinking water standards and provide maximum protection of public health.

Construction Numbers

- Excavated and removed 200,000 cubic yards of dirt. The estimated total is 220,000.
- Placed 5,500 cubic yards of concrete. The estimated total is 50,000 cubic yards.
- Installed 625 feet of pipe ranging in size from 54-inch to 120-inch diameters
- 50,000 accident free working hours...