



The City of San Diego
Water Department
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San Diego, CA 92101

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MWTP WaterWorks

The Miramar Water Treatment Plant Construction News
Winter 2006

Miramar Water Treatment Plant Upgrade and Expansion Progress Continues

Construction on Contract A continues into its second year and marks major progress of the Miramar Water Treatment Plant Upgrade and Expansion Project. Contract A, awarded to Western Summit Constructors Inc. (WSCI), includes the construction of twelve filter basins, a rapid mix facility, a de-aeration basin, an ozone structure, a bulk chemical storage area, a chlorine facility, associated piping, and electrical and mechanical components. These structures comprise state-of-the-art technology in modern water treatment processes. This phase of the project is now over 60% completed, and is scheduled for completion in the summer of 2007.



The first set of structural steel roof beams go up at the chlorine building.

Currently, stockpiles of dirt are being removed and placed around the structures, concrete is being poured, and structural steel is being erected. In addition, the contractor is installing electrical conduits,

mechanical equipment, and piping which will connect the structures. This work is in preparation for filter start-up, scheduled for the summer of 2006, which will take 6 to 8 months to bring on line.

Recently, the construction team started excavating underneath an existing sedimentation basin in order to install a 12-foot tunnel. A 10-foot pipeline will be inserted into the



A 10-foot pipeline will be inserted into this 12-foot tunnel, to connect the effluent water with the new filters.

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.

Boating/Fishing Activities at Lake Miramar Canceled for Two Weeks this spring

The Upgrade and Expansion Project is approaching another critical milestone with the connection of a new pipeline to an existing one located in the lake. This pipeline work will require lowering the water level at Lake Miramar, resulting in the cancellation of all fishing and boating activities for two weeks beginning on April 24, 2006.

You may notice that the lake will be lowered approximately 18 feet. Lowering the water level will not endanger the fish and wildlife that inhabit the lake and surrounding areas.

The fishing programs at other City lakes will continue as planned. Please visit: www.sandiego.gov/water for more information.



Upcoming Community Advisory Group Meeting

Wednesday, April 19, 2006, 5:30 p.m., Scripps Ranch Library

If you are interested in attending, please contact Community Outreach Specialist, Genevieve DePerio, at 619-533-6607 or gdeperio@sandiego.gov.

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:	619-668-3232
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

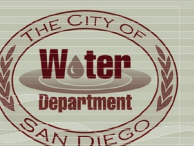
This information is available in alternative formats upon request.

Printed on recycled paper.

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THE CITY OF SAN DIEGO



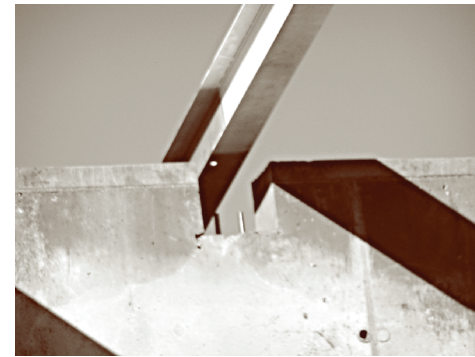
Did you know...

that in the City of San Diego there are... 6 Watersheds, including San Dieguito River, Peñasquitos, San Diego River, Pueblo, Otay, and Tijuana River Watersheds.

that the City of San Diego owns... 9 Reservoirs, including Morena, Barrett, El Capitan, San Vicente, Hodges, Murray, Otay, Sutherland and Miramar.

tunnel, and will connect the effluent water with the new filters of the Water Treatment Plant. It is approximately 250 feet long and is being constructed with steel ribbing and concrete. This construction technique provides for safety of the construction crews and maintains the integrity of the existing basin above. The tunnel is anticipated to be completed by late winter.

During the continued upgrades and expansion, the Water Department has ensured successful operation of the plant to meet current water capacity needs, water quality standards, and to maintain water reliability. Coordination includes scheduling shut-downs during low-demand periods, sequencing



A structural beam gets bolted into its final placement.

work in order to prepare for the interruption of critical structures, and installing temporary piping in order to maintain chemical processes for water treatment. The Water Department is committed to maintaining quality water service during this update and expansion.

A Celebration at Lake Miramar

A ceremony was held at Lake Miramar on Friday, February 24, 2006 to mark the opening of the recent public improvements and to celebrate the partnership between the Water Department and the community. Mayor Jerry Sanders and Councilmember Brian Maienschein were in attendance with community members to join in the celebration. As seen in the picture on the right, Bob Dingeman, a member of the Water Treatment Plant Community Advisory Group, receives the City Proclamation entitled "Lake Miramar Day," symbolizing the collaborative partnership between the Water Department and the Scripps Ranch community. The Proclamation is on display at the Scripps Ranch Library. In addition, Bob Dingeman presented Scripps Ranch Community Service Pins to City staff and other project team members who have worked closely with community members on the Miramar project since it began.



Construction Numbers

- Excavated and removed 220,000 cubic yards of dirt
- Placed 37,000 cubic yards of concrete of the 50,000 total
- Installed over a mile of pipe ranging from 24-inch to 120-inch in diameter
- Over 350,000 working hours

What's Next?

Over the next year, the work on this contract will include continuation of concrete pours, installation of structural steel, the start-up of water filters, increased activity of the installation of mechanical and electrical equipment, pump installation, site paving, and the completion of the chlorine building.

Once Contract A is completed, the Miramar Water Treatment Plant Upgrade and Expansion Project will continue into the next phase, Contract B. This phase involves the demolition of existing filters and a flocculation and sedimentation basin, the construction of three new basins and the rehabilitation of the existing operations building. Total project completion, including Contract B, C, and D is scheduled for 2012.

For more information about 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.

Improvements at Lake Miramar

Improvements completed at Lake Miramar include a redesigned entrance with new signage, a resurfaced parking lot, an additional parking lot at the west end, and new and upgraded landscaping. The left-turn entrance on the eastbound lane

of Scripps Lake Drive has been re-striped and extended, improving the entrance for motorists and cyclists into Lake Miramar. This improvement was done in response to community feedback, and now provides for better road striping.

In addition, the parking lot at the lake was completely resurfaced, adding more stalls for trucks and trailers. An entire new lot with 50 parking stalls was constructed at the west end. A landscaper has been hired to regularly maintain the landscaping at the entrance of Lake Miramar.



The new parking lot at Lake Miramar includes stalls for cars, trucks, and trailers.

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.

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