



California  
Department of  
Health Services

SANDRA SHEWRY  
Director

April 27, 2004

Mr. Larry Gardner  
Water Department Manager  
City of San Diego  
202 C Street  
San Diego, Ca 92101

State of California—Health and Human Services Agency  
Department of Health Services



DC#: 2004-001482



ARNOLD SCHWARZENEGGER  
Governor

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**CITY OF SAN DIEGO, SYSTEM NO. 3710020  
AMENDMENT #10 TO COMPLIANCE ORDER 04-14-96CO-022**

Dear Mr. Gardner,

Per the City of San Diego's (City) letter dated March 17, 2004, which is attached, the Department of Health Services, Division of Drinking Water and Environmental Management, Field Operations Branch, (Department) has reviewed your request for an extension to fulfill some of the requirements of Compliance Order No. 04-14-96CO-022. Amendment Number 9 was issued June 25, 2003 and addressed changes in the schedule for the projects.

The justifications for these changes include a different scope of work, funding, and scheduling issues, which have been discussed with the Department at previous meetings. In addition, some items regarding the Alvarado water treatment plant have been added in order to avoid confusion. Ozone equipment for both the Miramar and Alvarado Water Treatment Plants will have the same schedule. Therefore, the changes in Compliance Order No. 04-14-96CO-022 and Amendment Number 9 must be made.

In order to avoid confusion and facilitate tracking of the schedule, all of the projects are listed, whether the date was changed or not. The directives that have been changed are indicated by underlined text. The Department approves the City's request to change the schedule, as reflected in the following directives:

- No. 1 The City shall submit a plan to provide funding to complete the items in this compliance order by April 30, 1997. **(Completed)**.
- No. 2 The plan to provide funding to complete the items in this compliance shall be approved by the City Council by August 12, 1997. **(Completed)**.
- No. 3 At least quarterly, the City shall submit a progress report on the status of each item in the compliance order. A meeting with the Department may be substituted for a progress report.

- No. 4 For Redwood Village SP, the City shall complete rehabilitation of the reservoir by April 30, 1997. **(Completed)**.
- No. 5 For Paradise Hills SP, the City shall complete demolition of the reservoir by October 10, 1997. **(Completed)**.
- No. 6 For Otay Water Treatment Plant Clearwell (formerly South San Diego CCR), the City shall submit the plan for the structural rehabilitation by October 24, 2002. **(Completed)**.
- No. 6a For Otay Water Treatment Plant Clearwell (formerly South San Diego Reservoir No. 2), the City shall submit plans by May 16, 2001. **(Completed)**.
- No. 6b For Otay Water Treatment Plant Clearwell (formerly South San Diego Reservoir No. 2), the City shall begin construction by April 30, 2003. **(Completed)**.
- No. 6c For Otay Water Treatment Plant Clearwell (formerly South San Diego Reservoir No. 2), the City shall end construction by April 1, 2005.
- No. 7 For Point Loma CR, the City shall submit the drawings for rehabilitation of the reservoir by April 26, 1999. **(Completed)**.
- No. 8 For Rancho Bernardo CCR, the City shall submit the drawings for structural rehabilitation work by June 30, 2006 ~~December 31, 2005~~.
- No. 8a For Black Mountain Reservoir, the City shall submit plans by May 1, 2000. **(Completed)**.
- No. 8b For Black Mountain Reservoir, the City shall begin construction by September 1, 2000. **(Completed)**.
- No. 8c For Black Mountain Reservoir, the City shall end construction by December 31, 2001. **(Completed)**.
- No. 9 For Bayview CCR, the City shall submit the drawings for construction of the new replacement reservoir by February 1, 2000. **(Completed)**.
- No. 10 For Point Loma CR, the City shall begin rehabilitation of the reservoir by September 27, 1999. **(Completed)**.
- No. 11 For Bayview CCR, the City shall begin construction of the new replacement reservoir by October 2, 2000. **(Complete)**.
- No. 12 For Rancho Bernardo CCR, the City shall begin rehabilitation of the reservoir ~~construction~~ by December 31, ~~2005~~ 2006.

- No. 13 For Point Loma CR, the City shall complete rehabilitation of the reservoir by May 16, 2000. **(Completed)**.
- No. 14 For Rancho Bernardo CCR, the City shall complete rehabilitation of the reservoir ~~construction of the structural work~~ by January 31, ~~2007~~ 2008.
- No. 15 For Penasquitos PCT, the City shall submit the drawings for the structural work by May 4, 2001. **(Completed)**.
- No. 16 For San Carlos PCT, the City shall submit the drawings for the structural work by October 2, 2000. **(Complete)**.
- No. 17 For Soledad PCT, the City shall submit the drawings for the construction of the new replacement reservoir by February 1, 1999. **(Completed)**.
- No. 18 For Bayview CCR, the City shall complete construction of the new replacement reservoir by April 30, 2002. **(Completed)**.
- No. 19 For San Carlos PCT, the City shall begin construction by May 1, 2001. **(Completed)**.
- No. 20 For Penasquitos PCT, the City shall begin construction by November 30, 2001. **(Completed)**.
- No. 21 For Soledad PCT, the City shall begin construction of the new replacement reservoir by September 1, 1999. **(Completed)**.
- No. 22 For Penasquitos PCT, the City shall complete construction of the structural work by December 28, 2002. **(Completed)**.
- No. 23 For Soledad PCT, the City shall complete construction of the new replacement reservoir by September 1, 2000. **(Completed)**.
- No. 24 For San Carlos PCT, the City shall complete construction of the structural work by November 1, 2002. **(Completed)**.
- No. 25 For Alvarado WTP, the City shall submit the revised plan to break up the construction into different phases. **(Completed)**.
- No. 26 For Alvarado WTP, Begin construction of the Earl Thomas Reservoir by February 1, 2003. **(Completed)**.
- No. 27 For Alvarado WTP, College Ranch Pump Plant (currently Phase C), the City shall begin construction by November 30, 2001. **(Completed)**.

- No. 28 For Alvarado WTP, Operations Building (currently Phase B), the City shall begin construction by November 30, 2001. **Work Deleted** (Amendment 6).
- No. 29 For Alvarado WTP, End construction of the Earl Thomas Reservoir by July 1, 2005.
- No. 30 For Alvarado WTP, Filters (currently Phase E), the City shall begin construction by November 30, 1998. **(Completed)**.
- No. 31 For Alvarado WTP, College Ranch Pump Plant (currently Phase C), the City shall complete construction by December 1, 2003. **(Completed)**.
- No. 32 For Alvarado WTP, Operations Building (currently Phase B), the City shall complete construction by December 1, 2003. **Work Deleted** (Amendment 6).
- No. 33 For Alvarado WTP, New Basins (currently Phase F), the City shall open bids for the construction by December 1, 2003. **(Completed)**.
- No. 34 For Alvarado WTP, New Basins (currently phase F), the City shall begin construction by April 1, 2004. **(Completed)**.
- No. 35 For Alvarado WTP, Filters (currently Phase E), the City shall complete construction by November 30, 2001. **(Completed)**.
- No. 36 For Alvarado WTP, New Basins (currently Phase F), the City shall complete construction by December 1, 2006.
- No. 37 The City shall do everything within its power to optimize treatment at all of the City's water treatment plants, in order to produce an effluent turbidity goal of 0.1 NTU in 95% of the samples required every four hours, determined on a monthly basis.
- No. 38 Due to the size of the plants, their age, and the commitment to optimizing treatment to meet a 0.1 NTU goal, all operators with 24 hours per day responsibility are required to have a minimum Grade 5 certificate. Specifically, a minimum of two operators with a Grade 5 Water Treatment Operator certification shall be assigned to work full-time at each water treatment plant. In addition, the superintendent supervising the three water treatment plants shall possess a Grade 5 Water Treatment Operator certification. This shall be implemented by the following schedule:
- a) By April 1, 1999, the City shall submit an interim and draft long-term plan and time schedule for compliance. **(Completed)**.
  - b) By July 1, 1999, the City shall submit a final long-term plan and time schedule for compliance. **(Completed)**.

- No. 39 For Bayview PP, the City shall submit the drawings for construction by October 15, 1998. **(Completed)**.
- No. 40 For Deerfield PP, the City shall submit the drawings for construction by June 1, 1999. **(Completed)**.
- No. 41 For Bayview PP, the City shall begin construction by December 1, 1998. **(Completed)**.
- No. 42 For Del Cerro Highlands PP (formerly San Carlos PP) the City shall submit the drawings for by July 31, 1998. **(Completed)**.
- No. 43 For Deerfield PP, the City shall begin construction by December 1, 1999. **(Completed)**.
- No. 44 For Del Cerro Highlands PP (formerly San Carlos PP), the City shall begin construction by December 15, 1998. **(Completed)**.
- No. 45 For Bayview PP, the City shall complete construction by July 1, 1999. **(Completed)**.
- No. 46 For 65<sup>th</sup> & Herrick PP, the City shall submit the drawings for construction by December 31, 1998. **(Completed)**.
- No. 47 For 65<sup>th</sup> & Herrick PP, the City shall begin construction by July 2, 1999. **(Completed)**.
- No. 48 For Del Cerro Highlands PP (formerly San Carlos PP), the City shall complete construction by December 15, 1999. **(Completed)**.
- No. 49 For Deerfield PP, the City shall complete construction by December 29, 2000. **(Completed)**.
- No. 50 For 65<sup>th</sup> & Herrick PP, the City shall complete construction by May 30, 2001. **(Completed)**.
- No. 51 For Adobe Falls PS (formerly Alvarado PP), the City shall submit the drawings for construction by July 31, 2001. **(Completed)**.
- No. 52 For Catalina PP, the City shall submit the drawings for construction by January 5, 2002. **(Completed)**.
- No. 53 For the Adobe Falls PS (formerly Alvarado PP), the City shall begin construction by January 31, 2002. **(Completed)**.

- No. 54 For the Catalina PP, the City shall begin construction December 27, 2002. **(Completed)**.
- No. 55 For the Catalina PP, the city shall complete construction December 31, 2004. **(Completed)**.
- No. 56 For the Adobe Falls PS (formerly Alvarado PP), the City shall complete construction by March 31, 2003. **(Completed)**.
- No. 57 For the Miramar Pipeline Improvement Phase II, the City shall submit the drawings for construction by September 1, 1998. **(Completed)**.
- No. 58 For the Miramar Pipeline Improvement Phase II, the City shall begin construction by November 2, 1998. **(Completed)**.
- No. 59 The City shall submit an alignment and phasing program for the entire Otay 2 Pipeline by June 8, 2000. **(Completed)**.
- No. 60 For the Otay 2 Pipeline, north of State Route 94, the City shall submit the drawings by June 8, 1999. **Work Deleted** (Amendment 5).
- No. 61 For Miramar Pipeline Improvement Phase III, the City shall submit the drawings by October 1, 2006.
- No. 62 For the Miramar Pipeline Improvement Phase II, the City shall complete construction by April 3, 2000. **(Completed)**.
- No. 63 For the Otay 2 Pipeline north of State Route 94, the City shall begin construction by December 16, 1999. **Work Deleted** (Amendment 5).
- No. 64 For the Miramar Pipeline Improvement Phase III, the City shall begin construction by March 1, 2007.
- No. 65 For the Otay 2 Pipeline north of State Route 94, the City shall complete construction by January 4, 2001. **Work Deleted** (Amendment 5).
- No. 66 For the Bonita Pipeline Phase II, the City shall submit the drawings by May 10, 2001. **(Completed)**.
- No. 67 For the Bonita Pipeline Phase II, the City shall begin construction by October 31, 2001. **(Completed)**.
- No. 68 For the Bonita Pipeline Phase II, the City shall complete construction by October 1, 2003. **(Completed)**.



- No. 69 For the Miramar Pipeline Improvement Phase IV, the City shall submit the drawings by October 1, 2006.
- No. 70 For the Miramar Pipeline Improvement Phase III, the City shall complete construction by November 30, 2008.
- No. 71 For the Miramar Pipeline Improvement Phase IV, the City shall begin construction by March 3, 2007.
- No. 72 For the Miramar Pipeline Improvement Phase IV, the City shall complete construction by October 30, 2008.
- No. 73 The City shall award contracts for construction of at least ten miles of water main replacement per fiscal year, starting July 1, 1998.
- No. 74 Every six months, the City shall submit evidence of adequate progress toward compliance with item number 73.
- No. 75 The City shall submit documentation to demonstrate compliance with state regulations regarding cross-connection control, in all areas of the City that will be served by recycled water, by June 30, 1997. **(Completed)**.
- No. 76 The City shall not supply recycled water within their service area, until the City's cross-connection control program is determined to be in compliance with state regulations, in all areas of the City that will be served by recycled water. "In compliance with state regulations" means the City continues implementing the six required elements of a cross-connection control program required by Section 7584, Group 4, Chapter 5, Title 17, California Code of Regulations. Nothing in this directive shall be construed to deter or delay the construction of water reclamation facilities.
- No. 77 To insure that there are no cross connections between the reclaimed water piping and the potable water piping, a shutdown test must be performed by WUD and witnessed by the San Diego County Environmental Health Department or DWFOB, prior to delivery of any reclaimed water to any use site, and every four years thereafter. Annually, the potable water purveyor must visually inspect the site and review any changes in piping with the user supervisor.
- No. 78 Each recycled water use site must have an adequately trained user supervisor in order to control the on-site piping and prevent any cross connections. The user supervisor must keep as-built plans up to date and on the site.
- No. 79 By February 28, 1997, the city shall start work on the remaining 429 air and vacuum relief valves and air release valves in the City's water system, that must have their vents raised above grade. **(Completed)**.

- No. 80 The City shall complete work on thirty percent of the remaining 429 air and vacuum relief valves and air release valves in the City's water system, that must have their vents raised above grade, by July 28, 1999. **(Completed)**.
- No. 81 The city shall complete work on sixty percent of the remaining 429 air and vacuum relief valves and air release valves in the city's water system, that must have their vents raised above grade, by July 28, 2000. **(Completed)**.
- No. 82 The City shall complete the cross-connection control survey in all areas of the City (to determine the need for backflow protection at all service connections) by June 30, 2007.
- No. 83 Every six months, the City shall submit documentation to demonstrate adequate progress toward compliance with item number 82.
- No. 84 The City shall complete construction of the Black Mountain Road Pipelines by September 30, 2004 ~~December 31, 2003~~.
- No. 85 The City shall begin construction of the Rancho Bernardo Pump Station by December 31, 2006.
- No. 86 The City shall end construction of the Rancho Bernardo Pump Station by December 31, 2007.
- No. 87 The City shall start construction of the Miramar Water Treatment Plant Contract A (consisting of construction of Pre-Treatment Facilities, Filtration Facilities, Chemical Facilities, Ozone Contactors and Administration Building and demolition of Flocculation and Sedimentation Basin No. 4) by June 12, 2004.
- No. 88 The City shall complete construction of the Miramar Water Treatment Plant Contract A (consisting of construction of Pre-Treatment Facilities, Filtration Facilities, Chemical Facilities, Ozone Contactors and Administration Building and demolition of Flocculation and Sedimentation Basin No. 4) by June 30, 2008.
- No. 89 The City shall start construction of the Miramar Water Treatment Plant Contract B (consisting of construction of three Flocculation and Sedimentation Basins, demolition of Flocculation and Sedimentation Basin No. 3 and rehabilitation of the operations building) by January 31, 2007.
- No. 90 The City shall complete construction of the Miramar Water Treatment Plant Contract B (consisting of construction of three Flocculation and Sedimentation Basins, demolition of Flocculation and Sedimentation Basin No. 3 and rehabilitation of the operations building) by December 31, 2009.



- No. 91 The City shall start construction of the Miramar Water Treatment Plant Contract C (consisting of Ozone equipment) by February 8, 2008.
- No. 92 The City shall complete construction of the Miramar Water Treatment Plant Contract C (consisting of Ozone equipment) by November 30, 2009.
- No. 93 The City shall begin construction of the Otay 2<sup>nd</sup> Pipeline, I-15 to 54<sup>th</sup> Street by December 31, 2004.
- No. 94 The City shall complete construction of the Otay 2<sup>nd</sup> Pipeline, I-15 to 54<sup>th</sup> Street by December 31, 2006.
- No. 95 The City shall start construction of the Alvarado Water Treatment Plant Ozone equipment by February 8, 2008.
- No. 96 The City shall complete construction of the Alvarado Water Treatment Plant Ozone equipment by November 30, 2009.

This document amends Compliance Order No. 04-14-96CO-022. All other directives remain unchanged. This amendment to Compliance Order No. 04-14-96CO-022 is effective upon issuance. If you have any questions regarding this amendment letter, please contact me at (619) 525-4497.

Sincerely,



Brian Bernados, P.E.  
District Engineer

Enclosure: City of San Diego letter dated March 17, 2004

cc: San Diego County Health Department

Mark Stone  
Deputy Director, Water Operations  
2797 Caminito Chollas, MS 43  
San Diego, CA 92105-5097

✓ Vic Bienes  
Capital Improvements Program  
600 B Street, Suite 700, MS 907  
San Diego, CA 92101-4506



THE CITY OF SAN DIEGO



March 17, 2004

Mr. Brian Bernados, District Engineer  
Department of Health Services  
Drinking Water Field Operations Branch  
1350 Front Street, Room 2050  
San Diego, CA 92101

Dear Mr. Bernados:

Subject: Revised Request for Amendment No. 10 to Compliance Order 04-14-96-022

The Water Department continues to make progress with its Capital Improvements Program to meet the requirements of Compliance Order No. 04-14-96CO-022 issued by the Department of Health Services. As we discussed in our meeting with you on March 16, 2004, we have completed approximately 75% of the Compliance Order Items.

As we agreed in the meeting on March 16, 2004, we are revising our request for Amendment No. 10, which was originally submitted to you on August 4, 2003.

While we have had success in meeting most of the dates required by the Compliance Order, as discussed in your meeting with the CIP staff, we request that you consider issuing a tenth amendment to adjust the following items as shown:

No. 8 for Rancho Bernardo Reservoir - The City shall submit the drawings for the rehabilitation of the reservoir by June 30, 2006.

No. 12 for Rancho Bernardo Reservoir - The City shall begin construction of the rehabilitation of the reservoir by December 31, 2006.

No. 14 for Rancho Bernardo Reservoir - The City shall complete the construction of the rehabilitation of the reservoir by January 31, 2008.

No. 84 for Black Mountain Road Pipelines - The City shall complete the construction of the Black Mountain Road Pipelines by September 30, 2004.



Page 2

Mr. Brian Bernados, District Engineer

March 17, 2004

If you have any questions regarding our request, please call me at (619) 533-6600.

Sincerely,

A handwritten signature in cursive script, appearing to read "Vic Bienes".

Vic Bienes

Water Department Deputy Director

GFW/rp

cc: Larry Gardner, Water Department Director  
Mark Stone, Deputy Director, Water Operations Division  
Jeff Weien, Engineering Program Manager, Parsons