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**STATE OF CALIFORNIA**  
**CALIFORNIA DEPARTMENT OF PUBLIC HEALTH**

**IN RE:**           **Carpinteria Valley Water District**  
                          **1301 Santa Ynez Avenue**  
                          **Carpinteria CA, 93013**

**TO:**               **Mr. Charles Hamilton, General Manager**

**CITATION FOR NON-COMPLIANCE**

**WATER SYSTEM NO.:**       **4210001**

**CITATION NO.:**           **04-06-13C-010**

Section 116650 of Chapter 4, Part 12, Division 104 of the California Health and Safety Code (H&S Code), authorizes the issuance of a citation for failure to comply with the requirements of the California Safe Drinking Water Act, or any regulation, standard, permit or order issued thereunder.

The Division of Drinking Water and Environmental Management of the California Department of Public Health (hereinafter Department) hereby issues a citation to the Carpinteria Valley Water District (hereinafter CVWD), for the following violation:



## VIOLATION

1. Section 64533, Title 22, California Code of Regulations (CCR). Specifically, during the 3<sup>rd</sup> Quarter (July-September) of 2013, the total trihalomethane (TTHM) concentrations in the drinking water supply analyzed from the Gobernador Canyon sample site exceeded the Maximum Contaminant Level of 0.080 mg/L based on the locational running annual average (LRAA) of samples for the last four quarters of sampling.

According to Section 116650 of the Health and Safety Code, the above is classified as a non-continuing violation.

## BACKGROUND

The Carpinteria Valley Water District (CVWD) is a community water system serving treated domestic water to a residential population of 16,050 through 3,413 residential, 211 commercial, 58 industrial and 428 irrigational connections. CVWD has been operating under a domestic water supply permit issued by the Department on July 21, 2004. A permit amendment was issued on July 19, 2013 to add aeration treatment, El Carro Well 2 and the associated iron and manganese filtration facility.

The permitted sources of drinking water supply are three local groundwater wells and purchased surface water (Lake Cachuma and imported State Project Water) which receives treatment at City of Santa Barbara's conventional filtration surface water treatment plant.



The treated surface water supplies are delivered to CVWD via Cachuma Project's (COMB) transmission system. Four storage facilities, five booster stations are used to convey the water supply to the seven pressure zone distribution system. CVWD also has the ability to serve and receive water from Casitas Municipal Water District (CMWD) during emergencies. CVWD maintains a free chlorine disinfectant residual in the distribution system.

CVWD is required to sample four distribution system monitoring locations quarterly for TTHM and HAA5 analyses via dual sample sets, for compliance with the Stage-2 Disinfection Byproducts Rule (Stage-2 DBPR) pursuant to Section 64534.2(d), Title 22, CCR; in accordance with a Department approved Stage-2 DBPR monitoring plan. The Stage-2 TTHM concentrations (ppb) for the Gobernador Canyon Stage-2 site reported by CVWD are summarized below:

Location	1 <sup>st</sup> Quarter TTHM (ppb)	2 <sup>nd</sup> Quarter TTHM (ppb)	3 <sup>rd</sup> Quarter TTHM (ppb)	4 <sup>th</sup> Quarter TTHM (ppb)
Sample Date	2/6/2013	5/8/2013	8/5/2013	11/12/2012
Gobernador Cyn	<b>84</b>	<b>120</b>	<b>40.1</b>	<b>78</b>

The running annual average at the Gobernador Canyon Stage 2 Disinfection Byproduct Rule sample site is 80.5 ppb which exceeds the standard of 80 ppb.

On July 23, 2013, CVWD began pumping El Carro Well 2 into the Rancho Monte Allegre Reservoir in order to blend it with treated surface water traveling



1 through the South Coast Conduit. This blending treatment lowers the TTHMs  
2 in water delivered to the northeast side of the service area, including the  
3 Shepard's Mesa and Gobernador Canyon pressure zones. TTHM samples  
4 were collected from the Gobernador Canyon and Shepard's Mesa sites on July  
5 29, 2013 and the results were 65.7 ppb and 67.9 ppb respectively.  
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8 On August 1, 2013, CVWD initiated aeration treatment of the water in  
9 Gobernador Canyon Reservoir to lower the TTHMs in the water leaving the  
10 reservoir. The aeration equipment consists of a submersible pump and a PVC  
11 manifold which sprays the pumped water into the air before falling back into the  
12 reservoir. An air blower is also utilized during the daylight hours to evacuate  
13 the volatilized TTHMs from the reservoir. TTHM samples were collected from  
14 the Gobernador Canyon and Shepard's Mesa sites on August 12, 2013 and the  
15 results were 14.5 ppb and 30.7 ppb respectively.  
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18 CVWD intends to maintain the aeration equipment as a year-round or  
19 potentially, seasonal TTHM reduction treatment in the Gobernador Reservoir.  
20 CVWD shall submit a monthly report detailing the operation of the aeration  
21 equipment including, chlorine residual leaving the reservoir and the  
22 backpressure on the submersible pump to indicate the treatment system is  
23 operating properly.  
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26 CVWD maintains four water storage facilities in the distribution system that can  
27 store up to 17.85 million gallons (MG) of treated drinking water. CVWD boosts  
the chlorine residuals in the treated surface water upon delivery from COMB, at



its largest storage reservoir site (14.3 MG Carpinteria Reservoir), using free chlorine in order to maintain adequate disinfectant residuals throughout the system. Optimizing the operations of the storage facilities and the re-chlorination treatment is a significant factor in controlling excessive DBP formation.

CVWD is required to give Tier-2 public notice for violation of the TTHM MCL, pursuant to Section 64463.4, Title 22, CCR.

**DIRECTIVES**

The CVWD is hereby directed to take the following actions:

1. Within 30 days of receipt of this citation, complete the public notification requirements for the TTHM MCL violation listed in this citation, pursuant to the Tier-2 public notification procedures. The format of the notice must be approved by the Department. Submit certification of public notice issuance to the Department within 30 days of its completion.
2. Within 30 days submit a TTHM compliance plan and implementation schedule for complying with the TTHM MCL. An updated compliance plan shall continue to be submitted to the Department at least every 90 days thereafter, based on new and planned changes to treatment, sources of supply, and/or distribution system storage reservoir operations; until the Department determines it is no longer necessary.

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3. Proof of public notification shall be submitted to:

Kurt Souza, P.E., Chief  
Southern California Section  
Santa Barbara District  
Drinking Water Field Operations Branch  
1180 Eugenia, Suite 200  
Carpinteria, CA 93013-2000

**CIVIL PENALTIES**

Sections 116650 (a), (d), and (e) of the H&S Code allow for the assessment of a civil penalty for failure to comply with requirements of Chapter 4. Failure to comply with any provision of this Citation will result in the Department imposing an administrative penalty of up to \$1000.00 (one thousand dollars) per day as of the date of violation of any provision of this Citation.

Sept 12, 2013  
Date

Kurt Souza  
Kurt Souza, P.E., Chief  
Southern California Section  
Santa Barbara District (CDPH-DWFOB)



cc: Santa Barbara County Environmental Health