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STATE OF CALIFORNIA
WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER

TO: Orange Center School
3530 S. Cherry
Fresno, CA 93706

Water System No. 1000276

Attn: Camilla Sutherland

**CITATION FOR VIOLATION OF CALIFORNIA CODE OF REGULATIONS, TITLE 22,
SECTION 64426.1 (b) (2) - TOTAL COLIFORM MAXIMUM CONTAMINANT LEVEL**

September and October 2014

CITATION NO. 03-23-14C-075

Issued on November 20, 2014

Section 116650 of the California Health and Safety Code authorizes the issuance of a citation to a public water system for violation the California Safe Drinking Water Act (Health and Safety Code, Division 104, Part 12, Chapter 4, commencing with Section 116270) (hereinafter "California SDWA"), or any regulation, standard, permit or order issued or adopted thereunder.

The State Water Resources Control Board, acting by and through its Division of Drinking Water (hereinafter "Division") and the Deputy Director for the Division (hereinafter "Deputy Director"), hereby issues a citation to the Orange Center School Water System (hereinafter, Water System) (mailing address: 3530 S. Cherry, Fresno, CA 93706) for

29 violation of California Code of Regulations (CCR), Title 22, Section 64426.1 subsections
30 (b)(2).

31 **APPLICABLE AUTHORITIES**

32 **Section 116650 of California Health and Safety Code provides:**

33 (a) If the Division determines that a public water system is in violation of this chapter or
34 any regulation, permit, standard, citation, or order issued or adopted thereunder, the
35 Division may issue a citation to the public water system. The citation shall be served upon
36 the public water system personally or by certified mail. Service shall be deemed effective
37 as of the date of personal service or the date of receipt of the certified mail. If a person to
38 whom a citation is directed refuses to accept delivery of the certified mail, the date of
39 service shall be deemed to be the date of mailing.

40 (b) Each citation shall be in writing and shall describe the nature of the violation or
41 violations, including a reference to the statutory provision, standard, order, citation, permit,
42 or regulation alleged to have been violated.

43 (c) A citation may specify a date for elimination or correction of the condition constituting
44 the violation.

45 (d) A citation may include the assessment of a penalty as specified in subdivision (e).

46 (e) The Division may assess a penalty in an amount not to exceed one thousand dollars
47 (\$1,000) per day for each day that a violation occurred, and for each day that a violation
48 continues to occur. A separate penalty may be assessed for each violation.

49 **California Code of Regulations, Title 22, Section 64426.1, subsections (a) and (b)**
50 **provide, in relevant part:**

51 **§64426.1. Total Coliform Maximum Contaminant Level (MCL).**

52 (a) Results of all samples collected in a calendar month pursuant to Sections 64423,
53 64424, and 64425 that are not invalidated by the Division or the laboratory shall be
54 included in determining compliance with the total coliform MCL. Special purpose
55 samples such as those listed in §64421(b) and samples collected by the water
56 supplier during special investigations shall not be used to determine compliance with
57 the total coliform MCL.

58 (b) A public water system is in violation of the total coliform MCL when any of the
59 following occurs:

60 (1) For a public water system which collects at least 40 samples per month, more
61 than 5.0 percent of the samples collected during any month are total coliform-
62 positive; or

63 (2) For a public water system which collects fewer than 40 samples per month,
64 more than one sample collected during any month is total coliform-positive

65 STATEMENT OF FACTS

66 The Water System is operated under Water Supply Permit No. 03-23-12P-007, issued by
67 the Division on May 21, 2012. Orange Center School Water System is a non-transient
68 non-community water system serving a population of four hundred ten (410) people
69 through (7) service connections.

70
71 The Water System is required to collect a minimum of one (1) distribution system
72 bacteriological sample per month. The bacteriological water analysis results submitted by
73 the Water System reported the presence of total coliform bacteria in four (4) of nine (9)
74 samples collected during September 2014 and in seven (7) of nine (9) samples collected
75 during October 2014. **One of the positive samples collected during September 2014**
76 **showed the presence of *E. coli* bacteria.**

77
78 The following table summarizes the bacteriological monitoring conducted during the
79 months of September, October and November of 2014.

80

Collection Date	Number of Samples	Sample Labeled	Number TC positive	Number E. Coli positive
9/4/2014	1	Routine	1	1
9/5/2014	4	Repeat (including well)	3 (including well)	0
9/17/2014	4	Repeat (including well)	0	0
10/14/2014	5	Routine (all distribution)	4	0
10/17/2014	4	Repeat (including well)	3 (including well)	0
11/13/2014	5	Routine	0 (all 0.8 ppm Cl2 residual)	0

81

82 Following the *E. Coli* positive sampling on September 4, 2014, Boil Water Order was
83 issued to the Water System on September 5, 2014. Due to the above-mentioned total
84 coliform and *E. Coli* positive samples, the Water System failed the total coliform MCL for
85 the months of September and October of 2014. Results for water samples tested for
86 coliform bacteria during 2014 are summarized in Attachment A. Water System staff have
87 not completed a Positive Total Coliform Investigation, however Division staff visited the
88 site on October 17, 2014. There were obvious sanitary defects observed during that visit,
89 the most significant were summarized in an email to the Water System and are again
90 summarized here:

91

92 • At the well site, a well sounding tube extends at an angle from the well's concrete
93 pedestal. Upon inspection, the tube was appropriately inverted, but the opening
94 was not screened. **A fine mesh screen must be installed on the opening.** With
95 further inspection, the inverted portion of the tube was loose-fitting and not
96 secured into the main tube, leaving a significant open route for contamination to
97 enter the well. **The tube must be secured to prevent contamination from**
98 **entering the well.**

99

100 • Adjacent to the well site, a backflow protection device serving the Water System's
101 irrigation system was noted to have a significant and apparent long-term leak. The
102 leak could compromise the ability of the device to protect against backflows,
103 making the irrigation system a very real potential source of coliform
104 contamination. **If the device continues to leak regularly and require repairs,**
105 **the Water System shall plan for the near-term replacement of the device.**

106 In addition to the sanitary defects at the well, the following concerns regarding operations
107 were noted:

108

109 • Following the September 2014 total coliform and *E. Coli* sampling, onsite
110 maintenance staff conducted disinfection without the required supervision of the
111 certified operator. Regulations require the Water System's certified operator to
112 provide direct guidance on all disinfection activities. The certified operator was
113 unable to provide guidance. Specifically, the operator was unable to determine the
114 necessary chlorine dose, and could not provide the necessary equipment to
115 monitor and verify high levels of residual chlorine required for the disinfection. The
116 operator's regular method for monitoring chlorine residuals is with low level test-
117 strips rather than a colorimetric analyzer. The Division recommends that a
118 colorimetric test method be used.

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- The sample tap used to test the well was located after the check valve, and it appeared that the discharge was from the pressure tank rather than directly from the well. **The Water System shall install a dedicated source sample tap before the check valve.**
- **The Division is requiring the Water System to provide continuous disinfection of the well discharge for at least 30 days.** At the time of the inspection, there was not disinfection port installed on the well discharge line, despite this being a requirement of the Water System's 2012 Domestic Water Supply Permit. **The Water System must install continuous disinfection treatment, under the direct supervision of a minimum D1 certified operator.**
- It appears that the Water System's flow meter is not functioning. **The Water System should have the flow meter repaired or replaced.**

During the SWRCB staff's visit, repeat sampling was again conducted to determine whether the contamination persisted. Three of the four repeat samples collected on October 17, 2014 were positive for total coliform bacteria, including the well. **No public notices were observed in any areas of the Water System as had been required by the Boil Water Order. Drinking fountains were openly accessible. On October 17, 2014, emergency disinfection was required by the Division. Continuous chlorination was finally installed on the well discharge line on November 7, 2014. The Boil Water Order was lifted on November 17, 2014 following five distribution samples showing no presence of coliform bacteria and each having a chlorine residual of 0.8 ppm.** The appropriate Boil Water Order cancellation notices in English and Spanish that should have been posted and distributed are provided here as Attachment E.

The Groundwater Rule adopted by the Division, effective August 18, 2011, requires the collection of a sample for bacteriological evaluation from wells serving the system in response to a coliform positive distribution sample. This requirement was met with each round of repeat sampling.

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VIOLATION

The Drinking Water Field Operations Branch of the State Water Resources Control Board – Division of Drinking Water (hereinafter 'Division') hereby issues a Citation to Orange Center School Water System (hereinafter 'Water System'), for failure to comply with Section 116555(a)(1) of the CHSC and Section 64426.1(b)(2) of Title 22, California Code of Regulations (CCR). Based on the Statement of Facts, the Water System has failed to comply with the total coliform Maximum Contaminant Level (MCL) associated with a significant rise in bacterial count for the months of September and October 2014.

NOTIFICATION REQUIREMENTS

Section 64426.1(c) requires a public water system to notify the Division and the consumers of the water system, when a violation of Section 64426.1(b)(1) through (4) the total coliform MCL occurs. Notification to the Division shall be by the end of the business day on which the violation has been determined. If the Division is closed, notification shall be within 24 hours of the determination. The Division was notified on September 5, 2014, in accordance with the above-referenced section.

A Tier 2 Public Notice for violation of paragraph 64426 (a) (2) shall be given pursuant to Section 64463.1 and 64465. The Tier 2 Public Notice shall include the mandatory health effects language from Appendix 64465-A for a total coliform MCL failure and the presence of *E. coli* bacteria.

Section 64463.4 allows non-transient non-community water systems to give public notice by posting the notice in conspicuous locations throughout the area served by the water system and by the use of one or more of the following methods in order to reach persons not likely to be reached by a public posting: publication in a local newspaper or newsletter distributed to customers, e-mailing the public notice to water system customers, post the

180 public notice on the internet, or by delivery to each customer. The appropriate Tier 2
181 notification template is provided here as Attachment B. The Water System shall post the
182 public notice provided as Attachment B in conspicuous locations within the water system
183 and **shall deliver the public notice directly to each student and employee.**

184

185 Section 116450(g) requires that upon receipt of notification from a public water system,
186 schools must notify school employees, students, and parents (if the students are minors),
187 residential rental property owners or managers (including nursing homes and care
188 facilities) must notify their tenants and business property owners, managers or operators
189 must notify employees of businesses located on the property.

190

191 Proof of the required notification for the September and October violations is required.
192 Photographic evidence has been provided of the late posting, however, proof of
193 notification of posting and direct delivery is still required.

194 The Water System shall complete Attachment C and return it to the Division by **December**
195 **15, 2014.**

196

DIRECTIVES

197 The Water System is hereby directed to take the following actions:

- 198 1. By **December 1, 2014**, the Orange Center School water system shall provide
199 public notification of the total coliform Maximum Contaminant Level failure and
200 accompanying *E. Coli* contamination during September and October 2014 by
201 delivering the public notice directly to each student and employee using
202 Attachment B.

203

204 By **December 15, 2014**, the Water System shall provide proof of that public
205 notification by completing Attachment C and returning it to:

206
207 Betsy S. Lichti, Senior Sanitary Engineer
208 Division of Drinking Water
209 Drinking Water Field Operations Branch
210 265 W. Bullard Avenue, Suite 101
211 Fresno, CA 93704
212

213 2. **Immediately**, a fine mesh screen must be installed on the opening of the sounding
214 tube at the well and the inverted portion of the tube must be secured to prevent
215 contamination from entering the well.

216
217 3. **Immediately**, test and repair the backflow prevention device on the irrigation
218 service located near the well.

219
220 4. **Immediately**, maintain a 1.0 mg/L residual with the emergency disinfection that
221 has been installed.

222
223 5. By **December 7, 2014**, the Water System shall install a dedicated source sample
224 tap before the check valve.

225
226 6. By **December 15, 2014**, the Water System should have the flow meter repaired or
227 replaced.

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229 7. Maintain emergency disinfection until all sanitary defects have been eliminated
230 and at least throughout December 7, 2014. Documentation of correction of the
231 sanitary defects shall be provided to the Division and shall include photographs of
232 the repairs made.

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PARTIES BOUND

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SEVERABILITY

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FURTHER ENFORCEMENT ACTION

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8. Following repairs in Items 2, 3 and 5 above, the Water System shall conduct a bacteriological cycle test on the raw water produced from the well. The cycle test shall be conducted using the guidelines provided as Attachment D. All of these raw water samples shall be analyzed for total and fecal coliform using an MPN (enumeration) method to determine the density of the coliform. The results of these samples shall be reported to the Division by the 10th day of the following month.

This Citation shall apply to and be binding upon Orange Center School Water System, its officers, directors, shareholders, agents, employees, contractors, successors, and assignees.

The Directives of this Citation are severable, and Orange Center School Water System shall comply with each and every provision thereof, notwithstanding the effectiveness of any other provision.

The California SDWA authorizes the Division to: issue citation with assessment of administrative penalties to a public water system for violation or continued violation of the requirements of the California SDWA or any permit, regulation, permit or order issued or adopted thereunder including, but not limited to, failure to correct a violation identified in a citation or compliance order. The California SDWA also authorizes the Division to take action to suspend or revoke a permit that has been issued to a public water system if the system has violated applicable law or regulations or has failed to comply with an order of the Division; and to petition the superior court to take various enforcement measures against a public water system that has failed to comply with violates an order of the

260 Division. The Division does not waive any further enforcement action by issuance of this
261 citation.

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Date

11/20/14

Betsy S. Lichti, P.E.,

District Engineer

Division of Drinking Water

State Water Resources Control Board

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Attachments:

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A. Bacteriological Distribution Report

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B. Public Notice

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C. Proof of Notification

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D. Guidelines for conducting a Well Cycle Test

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E. Boil Water Order Cancellation Notices

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Bacteriological Distribution Monitoring Report

1000276 Orange Center School
Distribution System Freq: 1/M

Sample Date	Time	Location	T Coli	E Coli	F Coli	Type	Cl2	Violation	Comment
1/21/2014	11:20	Nurses sink	A	A		Routine			
2/5/2014	11:50	Site 2 fountain @ R2	A	A		Routine			
3/4/2014	14:55	Nurse's Sink	P	A		Routine			
3/6/2014	9:15	Nurse's Sink	A	A		Repeat			
3/6/2014	9:20	Well	A	A		Source Repeat			
3/6/2014	9:25	Downstream	A	A		Repeat			
3/6/2014	9:30	Upstream	A	A		Repeat			
4/15/2014	14:33	Nurse's Sink	A	A		Routine			
4/15/2014	14:40	Fountain @ R2	A	A		Routine			
4/15/2014	14:45	Cafeteria Sink	A	A		Routine			
4/15/2014	14:50	Fountain @ R12	A	A		Routine			
4/15/2014	14:55	Fountain @ R17	A	A		Routine			
5/12/2014	13:30	Site 1 Nurses sink	A	A		Routine			
6/4/2014	14:13	Site 2 Fountain @ R2	A	A		Routine			
7/16/2014	13:22	Site 1 nurse's sink	A	A		Routine			
8/13/2014	13:10	Site 2 - Fountain	A	A		Routine			
9/4/2014	12:13	Site 1 Nurse's Sink	P	P		Routine			BWO and 03-23-14C-075 iss pending repeats and disinfec
9/5/2014	12:13	Nurse's Sink	P	A		Repeat		MCL	
9/5/2014	12:18	Upstream OHB @ R2	A	A		Repeat			
9/5/2014	12:25	Downstream Front @ R21	P	A		Repeat			
9/5/2014	12:32	Well	P	A		Source Repeat			
9/17/2014	15:12	Nurse's Sink	A	A		Repeat	0		After Chlorination
9/17/2014	15:20	Upstream OHB @ R2	A	A		Repeat	0		After Chlorination
9/17/2014	15:28	Downstream Fountain @ R21	A	A		Repeat	0		After Chlorination
9/17/2014	15:36	Well	A	A		Source Repeat	0.1		After Chlorination
10/14/2014	14:25	Nurse's Sink	P	A		Routine			
10/14/2014	14:30	Fountain @ R2	A	A		Routine			
10/14/2014	14:35	Cafeteria Sink	P	A		Routine		MCL	11/20/14 Issued 03-23-14C-1
10/14/2014	14:39	Fountain @ R12	P	A		Repeat			
10/14/2014	14:43	Fountain @ R17	P	A		Routine			
10/17/2014	13:48	Well	9.2	<1.1		Source Repeat			
10/17/2014	13:57	Downstream	>23	<1.1		Repeat			
10/17/2014	14:04	Upstream	<1.1	<1.1		Repeat			
10/17/2014	14:10	Nurse's Sink	>23	<1.1		Repeat			
11/13/2014	14:45	OHB@R14	A	A		Routine	0.8		
11/13/2014	14:53	OHB@R11	A	A		Routine	0.8		
11/13/2014	15:10	OHB@R2	A	A		Routine	0.8		
11/13/2014	15:16	OHB@R4	A	A		Routine	0.8		
11/13/2014	15:33	OHB@Bus Barn	A	A		Routine	0.8		

Violation Key

MCL	Exceeds the maximum contaminant level
MR1	No monthly sample for the report month
MR2	No quarterly sample for the report month
MR3	Incorrect number of routine samples for the report month
MR4	Did not collect 5 routine samples for previous month's positive sample

MR5	Incorrect number of repeat samples as follow-up to a positive sample
MR6	No source sample
MR7	No summary report submitted
MR8	Other comments and/or info
MR9	Cl2 not reported

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Este informe contiene información muy importante sobre su agua potable.
Tradúzcalo o hable con alguien que lo entienda bien.

**Orange Center School Water System Had Levels of Coliform Bacteria
Above the Drinking Water Standard**

Our water system recently failed a drinking water standard. Although this incident was not an emergency, as our consumers, you have a right to know what you should do, what happened and what we did to correct this situation.

We routinely monitor for drinking water contaminants. We took nine (9) samples to test for the presence of coliform bacteria in September 2014. Four of those samples showed the presence of total coliform bacteria and one of those samples showed the presence of *E. Coli* bacteria. Additionally, we took nine (9) samples to test for the presence of coliform bacteria in October 2014. Seven of those samples showed the presence of total coliform bacteria. The standard is that no more than one sample per month may show the presence of coliform bacteria and no sample should show the presence of *E. Coli* bacteria.

What should I do?

- **You do not need to boil your water or take other corrective actions.**
- This is not an emergency. If it had been, you would have been notified immediately. Total coliform bacteria are generally not harmful themselves. *Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.*
- Usually, coliforms are a sign that there could be a problem with the treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or *E. coli*, are present. **Although *E. Coli* was found in the first sample, it has not been present in any subsequent testing; additionally, the water system is now providing continuous disinfection.**
- People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their health care providers. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1(800) 426-4791.
- If you have other health issues concerning the consumption of this water, you may wish to consult your doctor.

What happened? What is being done?

[Describe corrective action]. _____

For more information, please contact _____ [name of contact] at _____ [phone number] or _____ [mailing address].

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail.

Secondary Notification Requirements

Upon receipt of notification from a person operating a public water system, the following notification must be given within 10 days [Health and Safety Code Section 116450(g)]:

- SCHOOLS: Must notify school employees, students, and parents (if the students are minors).
- RESIDENTIAL RENTAL PROPERTY OWNERS OR MANAGERS (including nursing homes and care facilities): Must notify tenants.
- BUSINESS PROPERTY OWNERS, MANAGERS, OR OPERATORS: Must notify employees of businesses located on the property.

INFORMACION IMPORTANTE ACERCA DE SU AGUA POTABLE

Bacterias Coliformes Totales en el Sistema de Agua de: Orange Center School

Nuestro sistema de agua recientemente no cumplió con un estándar de agua potable. Aunque este incidente no es una emergencia, como nuestros clientes, ustedes tienen el derecho de saber lo que ocurrió y lo que hicimos para corregir esta situación.

Cada mes tomamos pruebas para contaminantes en la agua potable de nuestra sistema. Durante el mes de septiembre y octubre 2014, de 12 muestras mostraron la presencia de bacterias coliformes totales. El estándar es que no más que una (1) muestra por mes puede mostrar la presencia de bacterias coliformes.

¿Qué debo hacer yo?

- **No es necesario hervir su agua ni tomar otras acciones correctivas.** Sin embargo, si usted tiene una preocupación tocante la salud, debe de consultar a su doctor.
- Esto no es una emergencia. Si había sido, usted habría sido notificado inmediatamente. Las bacterias coliformes generalmente no son dañosos. Coliformes son bacterias que son naturalmente presente en el ambiente y se usan como un indicador que otros, potencialmente dañosos bacterias pueden ser presentes. Coliformes fueron encontrados en más muestras que se permiten y esto era una advertencia de problemas potenciales.
- Generalmente, coliformes son un signo que puede haber un problema con el sistema de tratamiento o sistema de distribución (tubos). Cuando bacterias coliformes se disciernen en cualquier muestra, pruebas subsiguientes se hacen para ver si otras bacterias de más grande riesgo o daño, tal como coliformes fecales o *E. coli*, están presentes. Ninguna de las muestras coliformes positivas mostró la presencia de bacterias coliformes fecales o la bacteria *E. coli*.
- Personas con sistemas inmunológicos, los bebés, niños y niñas de corta edad, y algunas personas ancianas pueden estar en alto riesgo. Estas personas deben consultar con sus proveedores de servicios médicos. Directivas generales para disminuir el riesgo de la infección por microbios está disponible de parte de la Línea Directa de Agua Potable de parte de EPA llamando al número 1-(800)-426-4791.

¿Qué sucedió? ¿Qué se hizo?

La causa de las muestras positivas

Para más información, por favor contacte _____ [name of contact] al número _____ [phone number] o a la siguiente dirección _____ [address].

Por favor comparte esta información con otros que pueden tomar de esta agua, colocando este aviso en lugares visibles, o remitiéndolo por correo, o entregándolo manualmente. Es de particular interés distribuir este aviso ampliamente si usted lo recibe representando un negocio, un hospital o hogar de infantes o hogar de ancianos o comunidad residencial.

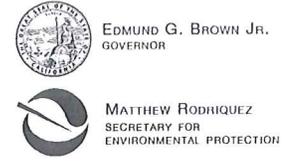
Requisitos secundarios de la Notificación

Al recibir esta notificación por parte de una persona que opera un sistema público de agua, este aviso debe ser dada dentro de 10 días [Sección 116450(g) de la reglas de Salud] según lo siguiente:

- ESCUELAS: Debe notificar a empleados de escuela, los estudiantes, y los padres si los estudiantes son menores.
- DUEÑOS O ADMINISTRADORES DE PROPIEDADES RESIDENCIALES de RENTA (inclusivo clínicas o hogares de reposo): Debe notificar a los inquilinos, renteros o residentes.
- DUEÑOS DE PROPIEDADES de NEGOCIO, los DIRECTORES, O los OPERARIOS: Deben notificar a empleados de negocios localizados en la propiedad.

Este aviso ha sido enviado a usted de acuerdo con las Regulaciones de California sobre la Calidad de la Agua Doméstica como un medio de mantener el público informado.

Fecha: _____



State Water Resources Control Board
Division of Drinking Water

ATTACHMENT C

PROOF OF NOTIFICATION
(Return with copy of notice)

As required by Section 116450 of the California Health and Safety Code, I notified all users of water supplied by Orange Center School of the violation of the Maximum Contaminant Level of the Total Coliform Rule and the presence of E. Coli in September and October of 2014 as directed by the Division.

Notification was made on _____ by _____ (date)

hand delivered and/or mailed and posted written notice. (circle all that apply)

Signature of Water System Representative

Printed Name

Date

DISCLOSURE: Be advised that Section 116725 and 116730 of the California Health and Safety Code state that any person who knowingly makes any false statement on any report or document submitted for the purpose of compliance with the attached order may be liable for a civil penalty not to exceed five thousand dollars (\$5,000) for separate violation for each day that violation continues. In addition, the violators may be prosecuted in criminal court and upon conviction, be punished by a fine of not more than \$25,000 for each day of violation, or be imprisoned in the county jail not to exceed one year, or by both the fine and imprisonment.

Due: December 15, 2014
Total Coliform Rule MCL: September and October 2014
System Number: 1000276
Citation No.: 03-23-14C-075

WATER SUPPLY WELL CYCLE TEST FOR BACTERIOLOGICAL CONTAMINATION

When a water supply well is suspected to be a possible source of bacteriological contamination in a domestic water system the well must be investigated. The cycle test is an effective method of evaluating the potential for the well to produce bacteriologically contaminated water.

The following procedure is considered to be an effective test for evaluation of the well. The well should be inactive for a minimum of ½ hour or longer before the start of the test, to allow the well to return to a static condition. For best results the well should discharge to waste, or if this is not possible, the discharge should be such that the well will run continuously for the 30 minute duration of the test. Have on hand an adequate supply of sample containers and identification tags.

- Open the discharge line and turn the pump on.
- Collect bacteriological samples at approximately:

No. 1 first water out of discharge	No. 4 at 15 minutes
No. 2 at 1 minute	No. 5 at 30 minutes
No. 3 at 5 minutes	

If the cycle test procedure is being done in follow-up to a previous coliform-positive sample from the well, the above samples should be analyzed by one of the methods listed below or a comparable method that would allow a determination of the density or enumeration of coliform present. If any of the cycle test samples are positive, the well should be disinfected and a follow-up cycle test performed by a method that would allow a determination of the density or enumeration of coliform present.

BACTERIOLOGICAL LABORATORY TEST PROCEDURES

Benefits and Disadvantages

Colilert Quanti-Tray or ColiPlate enzyme substrate test method: (Uses 100 ml sample)

- | | |
|----------------|---|
| Benefits: | Determines degree of contamination with a MPN result (Most Probable Number) |
| | Gives total coliform and E. coli results |
| Disadvantages: | More Expensive |

Multiple Tube test method: (Uses 100 ml sample divided to ten 10 ml tubes)

- | | |
|----------------|---|
| Benefits: | Determines degree of contamination with a MPN result (Most Probable Number) |
| Disadvantages: | More expensive |

NOTE: For either of the above methods, time for test completion depends upon media used.
 Defined substrate medias yield faster results, 18 to 48 hours (varies with brand of media)
 Fermentation media takes 48 to 96 hours for results.

Membrane Filter (Uses 100 ml sample)

- | | |
|----------------|---|
| Benefits: | Results in 24 hours |
| | Relatively inexpensive |
| Disadvantages: | Can be difficult to filter adequate size of sample |
| | Colonies of non-coliform bacteria can obscure coliform bacteria thus nullifying results and requiring re-testing. |

Orange Center School District November 17, 2014

CANCELLATION OF BOIL WATER ORDER

On September 9, 2014, you were notified of a "Boil Water Order" for the water system serving the Orange Center School, due to E. coli and coliform bacteria found during routine testing.

The Orange Center School District, in conjunction with the State Water Resources Control Board – Division of Drinking Water, has determined that the problem has been corrected. Disinfection of the well water is in place as a temporary measure and an initial round of testing of the water has been performed showing that no coliform bacteria were detected, and your water is safe to drink. **It is no longer necessary to boil the tap water.**

For more information call:

Water Utility contact: _____ at (____) _____

SWRCB Division of Drinking Water: (559) 447-3300

**Orange Center School District
17 de noviembre 2014**

**CANCELACIÓN DE LA
ADVERTENCIA DE HERVIR LA AGUA DE BEBER**

El 9 de septiembre de 2014, en que fue notificado de una "Orden de Hervir el Agua" para el sistema de agua al servicio de la Escuela Centro de naranja, debido a E. coli y bacterias coliformes encontrados durante las pruebas de rutina.

El Distrito Escolar de Centro de Orange, en colaboración con la Junta de Control de Recursos Hídricos del Estado - División de Agua Potable, se ha determinado que el problema se ha corregido. La desinfección del agua de pozo está en su lugar, como medida temporal y una ronda inicial de pruebas de que el agua se ha realizado lo que demuestra que no se detectaron bacterias coliformes, y su agua es segura para beber.
Ya no es necesario hervir el agua del grifo.

Para mas información, por favor póngase en contacto con:

Water Utility contact: _____ at (____) _____

SWRCB Division of Drinking Water: (559) 447-3300