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STATE OF CALIFORNIA
WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER

TO: Kings River Packing Company
21083 E. Trimmer Springs Road
Sanger, CA 93657

Water System No. 1000514

Attn: David S. Hines

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

September 2014

CITATION NO. 03-23-14C-080

Issued on December 16, 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 Kings River Packing Company Water System (hereinafter, Water System) (mailing address: 21803 Trimmer Springs Road, Sanger, CA 93657) for violation of California Code of Regulations (CCR), Title 22, Section 64426.1 subsections (b)(2).

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APPLICABLE AUTHORITIES

Section 116650 of California Health and Safety Code provides:

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

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

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

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

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

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

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

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

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

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

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

STATEMENT OF FACTS

The Water System is operated under Water Supply Permit No. 03-23-14P-006, issued by the Division on February 25, 2014. Kings River Packing Company Water System is a non-

69 transient non-community water system utilizing two wells to serve a population of one
70 hundred fifty (150) people through four (4) service connections.

71

72 The Water System is required to collect a minimum of one (1) bacteriological distribution
73 sample per month. The bacteriological water analysis results submitted by the Water
74 System reported the presence of total coliform bacteria in five (5) of five (5) samples
75 collected during September 2014. Additionally, during well cycle testing conducted in
76 September, the well tested positive for total coliform bacteria. Those results as well as all
77 bacteriological monitoring conducted during the months of September, October and
78 November of 2014 are included in the following table:

79

Collection Date	Number of Samples	Sample Labeled	Number TC positive	Number E. Coli positive
9/4/2014	1	Routine	1	0
9/9/2014	4	Repeat (including the well)	4	0
9/23/2014	3	Other	1	0
9/23/2014	5	Well Cycle Test	1	0
9/25/2014	3	Well Cycle Test	2	0
10/23/2014	5	Routine (with chlorine residuals)	0	0
11/3/2014	5	Well Cycle Test	2	0

80

81 Due to the above-mentioned total coliform positive samples, the Water System failed the
82 total coliform MCL for the month of September 2014. The source of contamination is
83 believed to be the well as reported in the Positive Total Coliform Investigation Form
84 (Attachment G) submitted by Water System staff. Further investigation and disinfection is
85 ongoing. Following the chlorination of the well and eventual installation of continuous
86 chlorination during the first week of October 2014, five routine distribution samples were

87 collected on October 23, 2014 with chlorine residuals ranging from 0.40 to 0.59 mg/L. All
88 five samples were negative for total coliform bacteria. Water System staff report that the
89 continuous chlorination will remain in place while efforts to disinfect the well continue.

90
91 The Groundwater Rule adopted by the Division, effective August 18, 2011, requires the
92 collection of a sample for bacteriological evaluation from wells serving the system in
93 response to a coliform positive distribution sample. This requirement was met with each
94 round of repeat sampling.

95
96 **VIOLATION**

97 The Drinking Water Field Operations Branch of the State Water Resources Control Board
98 – Division of Drinking Water (hereinafter 'Division') hereby issues a Citation to Kings River
99 Packing Company Water System (hereinafter 'Water System'), for failure to comply with
100 Section 116555(a)(1) of the CHSC and Section 64426.1(b)(2) of Title 22, California Code
101 of Regulations (CCR). Based on the Statement of Facts, the Water System has failed to
102 comply with the total coliform Maximum Contaminant Level (MCL) for the month of
103 September 2014.

104
105 **NOTIFICATION REQUIREMENTS**

106 Section 64426.1(c) requires a public water system to notify the Division and the
107 consumers of the water system, when a violation of Section 64426.1(b)(1) through (4) the
108 total coliform MCL occurs. Notification to the Division shall be by the end of the business
109 day on which the violation has been determined. If the Division is closed, notification shall
110 be within 24 hours of the determination. The Division was notified on September 10, 2014
111 in accordance with the above-referenced section.

112

113 A Tier 2 Public Notice for violation of paragraph 64426.1(b) (2) shall be given pursuant to
114 Section 64463.4 and 64465. The Tier 2 Public Notice shall include the mandatory health
115 effects language from Appendix 64465-A for a total coliform MCL failure.

116
117 Section 64463.4 allows non-transient non-community water systems to give public notice
118 by posting the notice in conspicuous locations throughout the area served by the water
119 system and by the use of one or more of the following methods in order to reach persons
120 not likely to be reached by a public posting: publication in a local newspaper or newsletter
121 distributed to customers, e-mailing the public notice to water system customers, post the
122 public notice on the internet, or by delivery to each customer. The appropriate Tier 2
123 notification template is provided here as Attachment B. The Water System shall post the
124 public notice provided as Attachment B in conspicuous locations within the water system
125 and shall deliver the public notice directly to each employee.

126

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

132 Notification of the public is reported to have been conducted on September 25, 2014
133 using Attachment B, however the method of dissemination was not indicated. Proof of
134 Notification is included here as Attachment C.

135

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138

DIRECTIVES

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

1. By **January 15, 2015**, the Water System shall indicate on Attachment C how the public notice was disseminated, sign and resubmit the form to the Division at the following address:

Betsy S. Lichti, Senior Sanitary Engineer
Division of Drinking Water
Drinking Water Field Operations Branch
265 W. Bullard Avenue, Suite 101
Fresno, CA 93704

2. The Water System will be required to maintain an approved Cross-Connection Control Program which shall include the following elements (as applied from Title 17, California Code of Regulations, Section 7584), and as outlined in Attachment D:

- a. The conducting of surveys to identify water user premises or locations where cross connections are likely to occur,
- b. The provisions of backflow protection by the Water user at the user's connection or within the user's premises or both,
- c. The provision of at least one person trained in cross-connection control to carry out the cross-connection program,
- d. The establishment of a procedure or system for annual testing of backflow preventers, and
- e. The maintenance of records of locations, tests, and repairs of backflow preventers.

The survey and documentation of a valid Cross Connection Control Program shall be submitted to the Division by January 31, 2015. You may contact the SWRCB-DDW Fresno District for guidance in identifying a cross-connection specialist to conduct the survey.

3. The Water System shall provide continuous disinfection treatment of the water until two bacteriological cycle tests on the raw water produced from the well taken one week apart show the absence of coliform bacteria. The cycle tests shall be conducted using the guidelines provided as Attachment E. All of these raw water



177 samples shall be analyzed for total and fecal coliform using the Multiple Tube
178 Fermentation Method to determine the density of the coliform. The results of these
179 samples shall be reported to the Division by the 10th day of the following month.

180

181 4. In the event that chlorination is still being provided after **January 31, 2015**, an
182 application (Form EH 100, Attachment F) for a permit amendment for the addition
183 of continuous chlorination treatment must be submitted to the Division. A permit
184 fee of \$258 shall be included at the time the application is submitted to the Division.
185 While the Water System is being chlorinated, monthly raw water bacteriological
186 samples should be collected from the wellhead and analyzed, and chlorine
187 residuals should be monitored throughout the distribution system.

188

189

PARTIES BOUND

190 This Citation shall apply to and be binding upon Kings River Packing Company Water
191 System, its officers, directors, shareholders, agents, employees, contractors, successors,
192 and assignees.

193

SEVERABILITY

194 The Directives of this Citation are severable, and Kings River Packing Company Water
195 System shall comply with each and every provision thereof, notwithstanding the
196 effectiveness of any other provision.

197

198

FURTHER ENFORCEMENT ACTION

199 The California SDWA authorizes the Division to: issue citation with assessment of
200 administrative penalties to a public water system for violation or continued violation of the
201 requirements of the California SDWA or any permit, regulation, permit or order issued or
202 adopted thereunder including, but not limited to, failure to correct a violation identified in a
203 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



205 system has violated applicable law or regulations or has failed to comply with an order of
206 the Division; and to petition the superior court to take various enforcement measures
207 against a public water system that has failed to comply with violates an order of the
208 Division. The Division does not waive any further enforcement action by issuance of this
209 citation.

210 12/16/14
211 Date

Betsy S. Licht
Betsy S. Licht, P.E.,
District Engineer
Division of Drinking Water
State Water Resources Control Board



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- Attachments:
- A. Bacteriological Distribution and Source Summary Reports
 - B. Public Notice Template
 - C. Proof of Notification
 - D. Guidance for Development of a Cross Connection Control Program
 - E. Guidance for Conducting a Well Cycle Test
 - F. Permit Amendment Application
 - G. Completed Positive Total Coliform Investigation Form

Bacteriological Distribution Monitoring Report

1000514 Kings River Packing
Distribution System Freq: 1/M

Sample Date	Time	Location	T Coli	E Coli	F Coli	Type	Cl2	Violation	Comment
1/28/2014	10:45	KRP office MHB	A	A		Routine			
2/11/2014	12:00	KRP 2-rou	A	A		Routine			
3/6/2014	12:20	KRp 3 rou	A	A		Routine			
4/3/2014	12:55	KRP 1 rou	A	A		Routine			
5/8/2014	13:15	2 Rou	P	A		Routine			
5/12/2014	10:58	2 rou	A	A		Repeat			
5/12/2014	11:00	1 rou	A	A		Repeat			
5/12/2014	11:05	KRP 3 rou	A	A		Repeat			
6/2/2014	11:15	1 Rou 1	A	A		Routine			
6/2/2014	11:20	KRP 3 rou	A	A		Routine			
6/2/2014	11:30	2 Rou #1	A	A		Routine			
6/2/2014	11:45	KRP 2 Rou 2	A	A		Routine			
6/2/2014	11:50	KRP 1 Rou	A	A		Routine			
7/9/2014	16:30	KRP 1 rou	A	A		Routine			
8/5/2014	10:40	KRP 2 rou	A	A		Routine			
9/4/2014	16:30	3 Rou	P	A		Routine			
9/9/2014	9:20	3REP3	P	A		Repeat			
9/9/2014	9:26	3REP1	P	A		Repeat			
9/9/2014	9:34	3REP2	P	A		Repeat			
9/9/2014	9:55	3ROU	P	A		Repeat		MCL	
10/23/2014	16:15	KRP 3 rou	A	A		Routine	0.45		
10/23/2014	16:20	2 Rou	A	A		Routine	0.54		
10/23/2014	16:25	KRP West HB	A	A		Routine	0.45		
10/23/2014	16:30	KRP 1-rou	A	A		Routine	0.44		
10/23/2014	16:35	3 Rou Test 2	A	A		Routine	0.40		
11/3/2014	12:50	2 Rou Proposed Site	A	A		Routine	0.59		

Violation Key

MCL	Exceeds the maximum contaminant level	MR5	Incorrect number of repeat samples as follow-up to a positive sample
MR1	No monthly sample for the report month	MR6	No source sample
MR2	No quarterly sample for the report month	MR7	No summary report submitted
MR3	Incorrect number of routine samples for the report month	MR8	Other comments and/or info
MR4	Did not collect 5 routine samples for previous month's positive sample	MR9	Cl2 not reported

Source Bacteriological Monitoring Report

1000514 Kings River Packing

<i>Sample Date</i>	<i>Time</i>	<i>Source</i>	<i>Sample Type</i>	<i>Test Method</i>	<i>T Coli</i>	<i>E Coli</i>	<i>F Coli</i>	<i>HPC</i>	<i>Violation</i>	<i>Comments</i>
5/12/2014	10:45	Well	Well	P/A	A	A				
9/23/2014	16:00	Well startup	Well Cycle	MPN	<1.1	<1.1				
9/23/2014	16:01	Well - 1 min	Well Cycle	MPN	2.2	<1.1				
9/23/2014	16:05	Well - 5 min	Well Cycle	MPN	<1.1	<1.1				
9/23/2014	16:15	Well 15 min	Well Cycle	MPN	<1.1	<1.1				
9/23/2014	16:30	Well - 30 min	Well Cycle	MPN	<1.1	<1.1				
9/25/2014	13:00	Well #1	Well Cycle	MPN	1.1	<1.1				
9/25/2014	13:01	Well #2	Well Cycle	MPN	1.1	<1.1				
9/25/2014	13:05	Well #3	Well Cycle	MPN	<1.1	<1.1				
11/3/2014	12:30	Well Start up	Well Cycle	P/A	A	A				
11/3/2014	12:31	Well - 1 min	Well Cycle	P/A	P	A				
11/3/2014	12:35	Well - 5 min	Well Cycle	P/A	A	A				
11/3/2014	12:45	Well - 15 min	Well Cycle	P/A	P	A				
11/3/2014	13:00	Well - 30 min	Well Cycle	P/A	A	A				

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.

**Kings River Packing's Water System Has 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 customers, 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 five (5) samples to test for the presence of coliform bacteria in September 2014. All five of these 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.

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. **We did not find any of these bacteria in our subsequent testing.**
- 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].

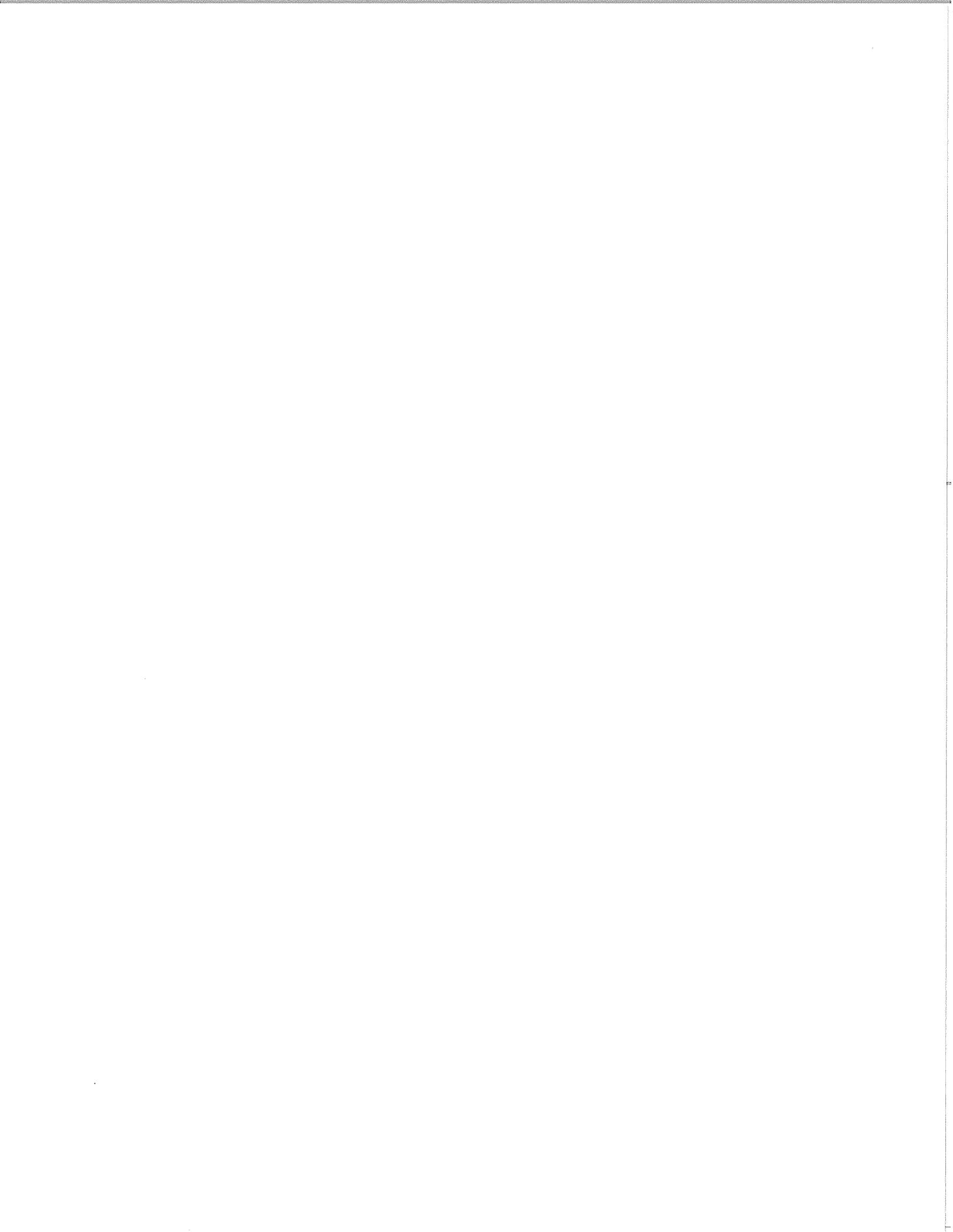
Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies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

This notice is being sent to you by Kings River Packing Water System Date distributed: _____



RECEIVED
OCT - 3 2014
BY: _____

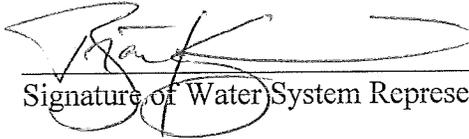
Attachment C

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 the **Kings River Packing** of the failure to meet the **total coliform bacteria MCL** for the month of **September 2014** as directed by the Division.

Notification was made on September 25, 2014 by _____
(date)

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

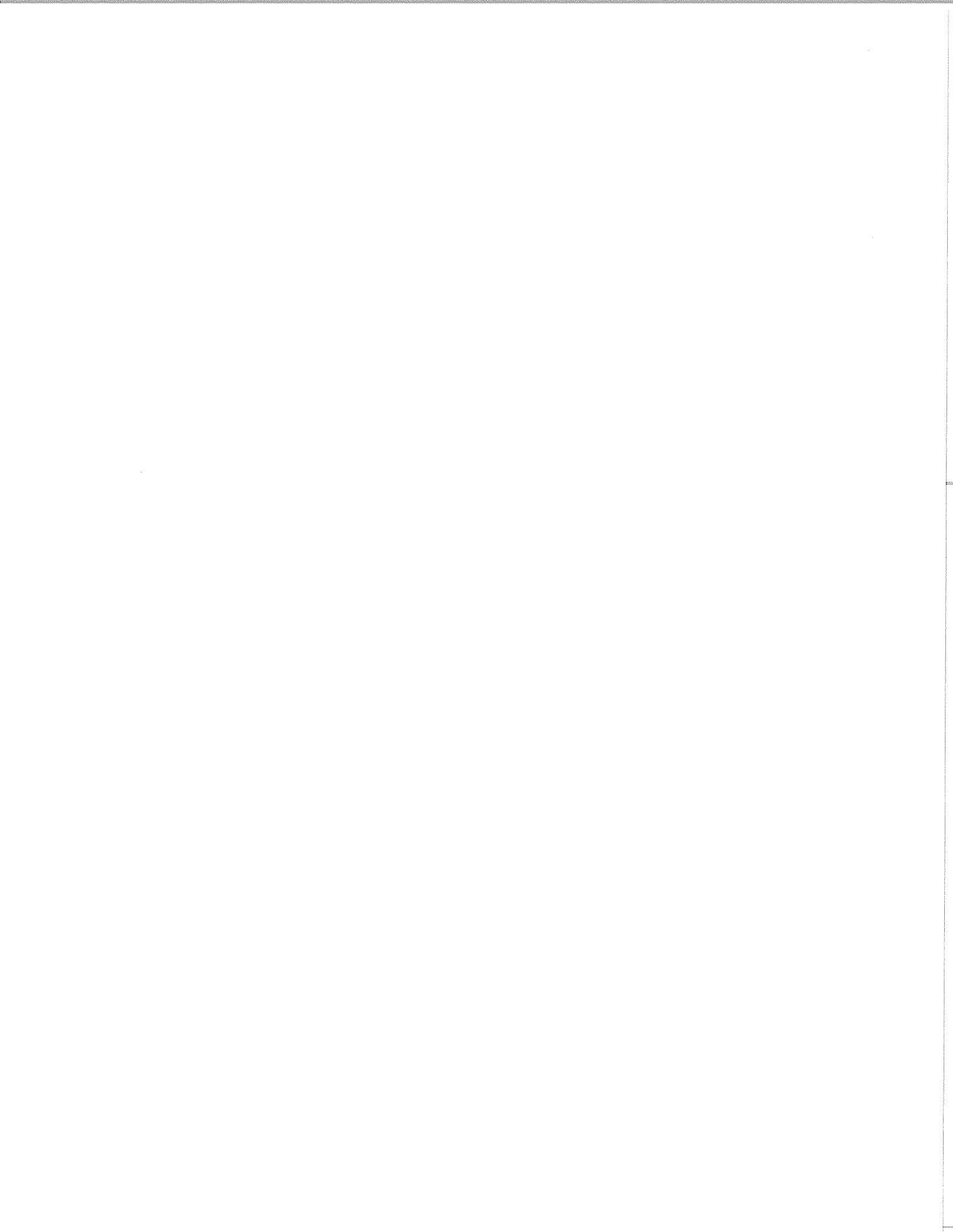


Signature of Water System Representative

September 25, 2014
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: October 15, 2014
Total Coliform MCL Failure: September 2014
System Number: 1000514
Citation No.: _____



CROSS-CONNECTION CONTROL NON-COMMUNITY WATER SYSTEMS SWRCB DDW - FRESNO DISTRICT

Purpose of Cross-Connection Control Program

Water provided by a public water system may be contaminated via cross-connections within the user's distribution system. The purpose of the cross-connection control program is to eliminate actual cross-connections and to reduce the hazard of potential cross-connections. This is accomplished by identifying actual and potential cross-connections and either installing appropriate backflow prevention assemblies or ensuring that water-using equipment is installed in accordance with plumbing code requirements and good practice.

What are cross-connections?

Cross-connections are unprotected connections between a potable water system and any source or system containing unapproved water or a substance, which is not safe. Examples of cross-connections include:

1. Improperly installed irrigation systems (which may allow back siphoning of stagnant, bacterially contaminated water into the piping system) or premises where there are irrigation systems into which fertilizers, herbicides, or pesticides are or can be injected.
2. Improperly plumbed water-using devices such as hot tubs, boilers or commercial dishwashers.
3. Irrigation systems served by an auxiliary source, such as an unapproved well or a creek. Such systems, if connected to the drinking water system, create a potential for contamination via cross-connections.
4. Interconnections between the potable system and a non-potable system.

How to Comply

For Non-community water systems, the program consists of identification of hazards and protection of the system from these hazards. The program is to be adapted to the size and complexity of the system. The following are the required elements and necessary actions:

1. Identification of Hazards -This consists of a review of the system facilities to identify areas of potential contamination via cross-connections. A survey of the system is to be conducted with documentation of the findings. Any facilities that handle wastewater or hazardous liquids require special evaluation to ensure protection of the potable system from contamination.
2. Protection of System -Taking action to abate the potential cross-connection by ensuring compliance with plumbing codes, installing and maintaining appropriate backflow prevention assemblies and other means. This includes annual testing and repair or replacement as needed.

Completion and Documentation

Attached is additional information and forms that you can use to help guide you through this program. A survey of the system is to be conducted by a qualified person. Documentation of the survey findings is to be maintained and submitted to the Division when requested.

Attachments - Information and forms for surveys

- Notes:*
1. Regulatory Authority: Pursuant to Section 7584 of the California Code of Regulations, which states, "The water supplier shall protect the public water supply from contamination by implementation of a cross-connection control program".
 2. Applicability: Non-community water systems

ELEMENTS OF A CROSS-CONNECTION CONTROL PROGRAM SWRCB DDW - FRESNO DISTRICT

When implementing a Cross-Connection Control Program, the water supplier or health agency should follow an organized plan. The following items should be included as a minimum:

7584. Responsibility and Scope of Program

The water supplier shall protect the public water supply from contamination by implementation of a cross-connection control program. The program, or any portion thereof, may be implemented directly by the water supplier or by means of a contract with the local health agency, or with another agency approved by the health agency. The water supplier's cross-connection control program shall for the purpose of addressing the requirements of Sections 7585 through 7605 include, but not limited to, the following elements:

(a) *The adoption of operating rules or ordinances to implement the cross-connection program.*

A public water supplier shall enact an ordinance or rule of service outlining the cross-connection control program and providing enforcement authority.

(b) *The conducting of surveys to identify places where cross-connections are likely to occur.*

Water utilities do not have any responsibility for controlling or abating cross-connections on a user's premises. All existing facilities where potential cross-connections are suspected, however, shall be listed and inspected or reinspected on a priority basis, where feasible. All applications for new services or for enlarging existing services or changing of occupant shall be reviewed or screened for cross-connections hazards. Surveys are intended to be conducted by a person certified by AWWA or ABPA as a cross-connection specialist. A list of persons that have this certification may be obtained by contacting AWWA at (909) 481-7200, ABPA at <http://www.abpa.org/>, or by contacting the CDPH-Fresno District office.

(c) *The provision of backflow protection at the user's connection or within the user's premises or both.*

Adequate provisions for implementation and enforcement of backflow protection where needed including the shutting off service when necessary

(d) *The provision of at least one person trained in cross-connection control to carry out the cross-connection program.*

Specific units of the health agency and/or water supplier should be designated to organize and carry out the cross-connection control program. The personnel in those units should be trained as to the causes and hazards of unprotected cross-connections.

(e) *The establishment of a procedure or system for testing backflow preventers.*

A list of approved backflow preventers and list of certified testers should be made available to each water user required to provide backflow protection.

The list may include backflow devices approved by University of Southern California, Foundation for Cross-Connection Control and IAPMO, which may be found on the SWRCB website at the following address:

http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/publications.shtml.

The List of certified testers may be lists developed by the American Water Works Association and local county health agencies.

Backflow preventers should be tested at least yearly or more often as required by the health agency or water supplier.

(f) *The maintenance of records of locations, tests and repairs of backflow preventers*

Adequate records should be kept and filed for reference. These records should include, in addition to the name of the owner of the premises, the:

- a) Date of inspection
- b) Results of inspection
- c) Required protection
- d) List of all backflow preventer devices in the system
- e) Test and maintenance reports
- f) All correspondence between the water supplier, the local health authority, and the consumer
- g) Records must be maintained for a minimum of three years

Records of inspection and testing should be evaluated to determine if:

- a) Devices are frequently or sufficiently reviewed to detect failure.
- b) There are unusual feature of a particular model of device or component.
- c) Cause of failure can be eliminated.

A program should be established to notify the water user when his backflow preventer must be tested. (A minimum of once each year is required.) After installation or repair, a backflow preventer should be tested and approved before it is accepted.

7605. Testing and Maintenance of Backflow Preventers

Regulations require the following regarding testing and maintenance of backflow prevention devices:

- (a) The water supplier shall assure that adequate maintenance and periodic testing are provided by the water user to ensure their proper operation.
- (b) Backflow preventers shall be tested by persons who have demonstrated their competency in testing of these devices to the water supplier or health agency.
- (c) Backflow preventers shall be tested at least annually or more frequently if determined to be necessary by the health agency or water supplier. When devices are found to be defective, they shall be repaired or replaced in accordance with the provisions of this Chapter.
- (d) Backflow preventers shall be tested immediately after they are installed, relocated or repaired and not placed in service unless they are functioning as required.
- (e) The water supplier shall notify the water user when testing of backflow preventers is needed. The notice shall contain the date when the test must be completed.
- (f) Reports of testing and maintenance shall be maintained by the water supplier for a minimum of three years.

GUIDELINES FOR CROSS-CONNECTION CONTROL FOR IRRIGATION SYSTEMS

Summary: Public water systems must be protected from actual and potential cross-connections between irrigation systems and domestic water systems. This is accomplished by ensuring that the irrigation system is installed in accordance with the requirements of the Uniform Plumbing Code with appropriate backflow prevention devices.

Special Conditions: For systems with an unapproved auxiliary source serving the irrigation system, additional protective action is necessary to guard against introduction of water from the auxiliary source into drinking water system. The following actions must be taken to guard against this hazard:

1. Identify all interties between the domestic system and the irrigation system.
2. Either disconnect these interties or install approved backflow prevention devices at each intertie. A Reduced Pressure Principle backflow prevention device is the type of device, which is to be installed.
3. Verify that there are no other interconnections between the domestic and irrigation systems. This is accomplished by draining the irrigation system and verifying that it does not refill with water from the domestic system through an undetected cross-connection. This procedure should be repeated on a period basis (once every three months).

Records: Maintain written records of dates of tests, procedures, results and corrective actions taken.

**CROSS-CONNECTION SURVEY SUMMARY FORM
NON-COMMUNITY WATER SYSTEMS**

System Name _____ Number _____

Date of Survey _____

Name of person performing survey _____

Qualifications of person performing survey _____

Description of Survey (Elements of survey, how conducted, hazards identified):

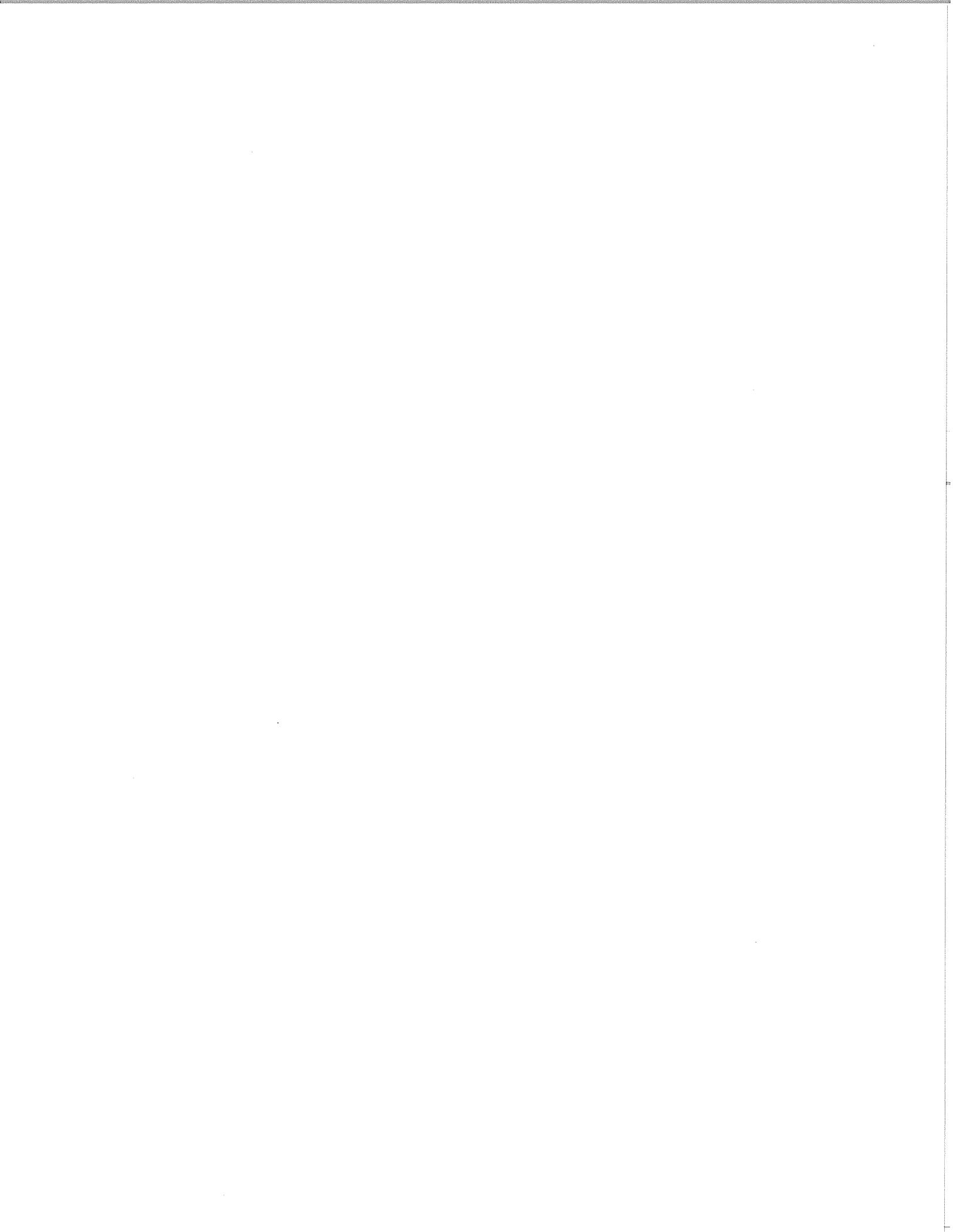
Actions taken (Include description of corrections, backflow prevention assemblies installed):

Long-term (Include description of who will ensure ongoing protection of the system from cross-connections and testing of backflow prevention assemblies):

Other (Include other elements of program):

Name of person completing this report _____ Date _____

Signature _____



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. |

STATE OF CALIFORNIA
APPLICATION
FOR
DOMESTIC WATER SUPPLY PERMIT AMENDMENT
FROM

Applicant: _____
 (Enter the name of legal owner, person(s) or organization)

Address: _____

System Name: _____

System Number: _____

TO: State Water Resources Control Board
 Division of Drinking Water
 Southern California Field Operations Branch
 Fresno District Office
 265 W. Bullard Avenue, Suite 101
 Fresno, California, 93704



Pursuant and subject to the requirements of the California Health and Safety Code, Division 104, Part 12, Chapter 4 (California Safe Drinking Water Act), Article 7, Section 116550, relating to changes requiring an amended permit, application is hereby made to amend an existing water supply permit to _____

(Applicant must state specifically what is being applied for - whether to construct

new works, make alterations or additions in works or sources, or change or modify treatment.)

I (We) declare under penalty of perjury that the statements on this application and on the accompanying attachments are correct to my (our) knowledge and that I (we) are acting under authority and direction of the responsible legal entity under whose name this application is made.

By: _____

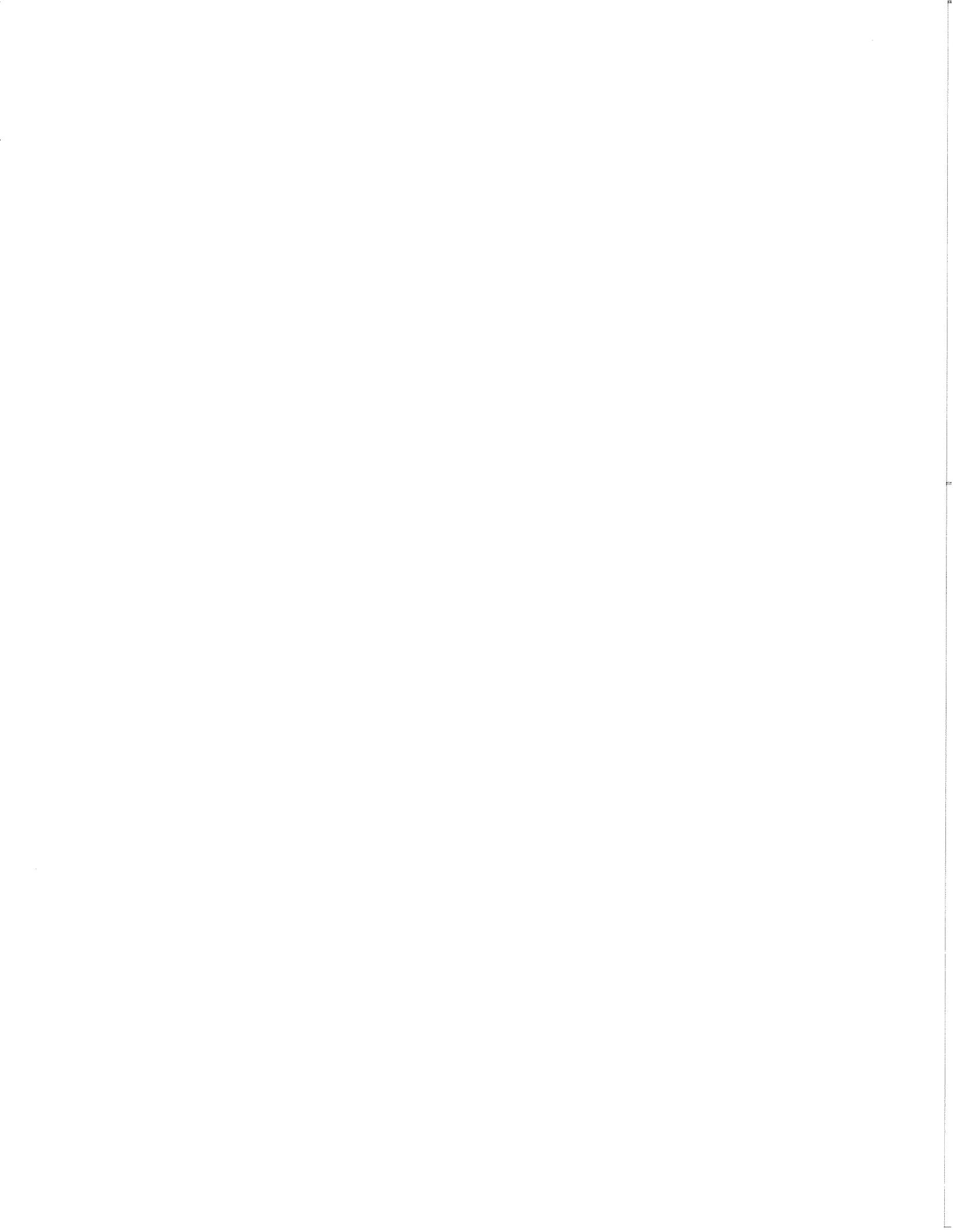
Signature: _____

Title: _____

Address: _____

Telephone: _____

Dated: _____



POSITIVE TOTAL COLIFORM INVESTIGATION Simple Well with Pressure Tank Systems

This form is intended to assist public water systems in completing the investigation required by the SWRCB Drinking Water Division (Section 64426(b) of Title 22, California Code of Regulations) and may be modified to take into account conditions unique to the system.

ADMINISTRATIVE INFORMATION

PWS Name:	Kings River Packing		PWS ID NUMBER:	1000514
Operator in Responsible Charge (ORC)	Name	Address	Telephone #	
Person that collected TC samples if different than ORC	Tyler Thomas, S&S Water Service	ss.waterservice@gmail.com	(559) 246-7513	
Owner	Same as ORC			
Certified Laboratory for Microbiological Analyses	Kings River Packing	21083 E. Trimmer Springs Rd	(559) 787-2056	
Date Investigation Completed:	ongoing	BSK Laboratories	(559) 497-2888	
Month(s) of Total Coliform MCL Failure:	2			

INVESTIGATION DETAILS

SOURCE	WELL (name)	WELL (name)	WELL (name)	WELL (name)	COMMENTS
	001				
1. Inspect each well head for physical defects and report					
a. Is raw water sample tap upstream from point of disinfection?	yes				
b. Is wellhead vent pipe screened?	yes				
c. Is wellhead seal watertight?	yes				
d. Is well head located in pit or is any piping from the wellhead submerged?	no				
e. Does the ground surface slope towards well head?	no				
f. Is there evidence of standing water near the wellhead?	no				
g. Is there a check valve on the well discharge line? Is the check valve seating properly?	Yes, Yes				
h. Are there any connections to the raw water piping that could be cross connections? (describe all connections in comments)	None found				Survey just completed 10/14
i. Is the wellhead secured to prevent unauthorized access?	No				
j. To what treatment plant (name) does this well pump?	NA				
k. How often do you take a raw water total coliform (TC) test?	As needed				
l. Provide the date and result of the last TC test at this location	10/2/14				Well Cycle Test. 30 min at 16 for total Coliform.

POSITIVE TOTAL COLIFORM INVESTIGATION

Page 2 of 3

Attachment G

DISTRIBUTION SYSTEM	SYSTEM RESPONSES			
1. What is the minimum pressure you are maintaining in the distribution system?	40			
2. Did pressure in the distribution system drop to less than 5 psi prior to experiencing the TCR positive finding.	No			
3. Has the distribution system been worked on within the last week? (service taps, hydrant flushing, main breaks, main extensions, etc.) If yes, provide details.	No			
4. Are there any signs of excavations near your distribution system not under the direct control of your maintenance staff?	No			
5. Did you inspect your distribution system to check for mainline leaks? Do you or did you have a mainline leak?	Yes, No leaks found.			
6. If there was a mainline leak, when was it repaired?	NA			
7. On what date was the distribution system last flushed?	NA			
8. Is there a written flushing procedure you can provide for our review?	No			
9. Do you have an active cross connection control program?	In process of completing.			
10. What is name and phone number of your Cross-Connection Control Program Coordinator?	Tyler Thomas, S&S Water Service (559) 246-7513			
11. Is the review and testing of backflow prevention devices current?	No testable devices installed			
12. On what date was the last physical survey of the system done to identify cross-connections?	9/23/14			

SAMPLE SITE EVALUATION (Complete for all TC+ or EC+ findings)	Routine Site TC+ or EC+	Upstream Site	Downstream Site	Sample 4 (specify)
				Well
1. What is the height of the sample tap above grade? (inches)	Above 18"	Above 24"	Approx 16"	Above 18"
2. Is the sample tap located in an exterior location or is it protected by an enclosure?	ext	ext	ext	ext
3. Is the sample tap threaded, have a swing arm (kitchen sink) or aerator (sinks)?	threaded	threaded	threaded	No threads
4. Is the sample tap in good condition, free of leaks around the stem or packing?	Yes	Yes	Yes	Yes
5. Can the sample tap be adjusted to the point where a good laminar flow can be achieved without excessive splash?	Yes	Yes	Yes	Yes
6. Is the sample tap and area around the sample tap clean and dry (free of animal droppings, other contaminants or spray irrigation systems)	Yes	Yes	Yes	Yes
7. Is the area around the sample tap free of excessive vegetation or other impediments to sample collection	Yes	Yes	Yes	Yes
8. Describe how the tap was treated in preparation for sample collection (ran water, swabbed with disinfectant, flamed, etc.)	Flamed, flushed at least 5 min			
9. Is this sample tap designated on the sampling plan submitted with this information request?	Yes	Yes	Yes	Yes
10. What were weather conditions at the time of positive sample (rainy, windy, sunny)?	sunny	sunny	sunny	sunny

POSITIVE TOTAL COLIFORM INVESTIGATION

Attachment G

Page 3 of 3

GENERAL OPERATIONS:	Response
1. Where there any power outages that affected water system facilities during the 30 days prior to the TC+ or EC + findings?	None reported
2. Where there any main breaks, water outages, or low pressure reported in the service area where TC+ or EC+ samples were located.	None reported
3. Does the system have backup power or elevated storage?	Not automatic back up
4. During or soon after bacteriological quality problems, did you receive any complaints of any customers' illness suspected of being waterborne? How many?	No
5. What were the symptoms of illness if you received complaints about customers being sick?	NA

ADDITIONAL INFORMATION TO BE SUBMITTED WITH RESPONSES TO THE ABOVE QUESTIONS

1. Sketch of System showing all sources, treatment locations, storage tanks, microbiological sampling sites and general layout of the distribution system including the location of all hazardous connections such as the wastewater treatment facility.
2. A set of photographs of the well, pressure tanks, and storage tanks in the system may be submitted if they would show that the contamination is directly related and changes have been made since the last inspection by our Division.
3. Name, certification level and certificate number of the Operator in Responsible Charge.
4. Copy of the last cross connection survey performed that identifies the location of all unprotected cross connections.

SUMMARY: BASED ON THE RESULTS OF YOUR INVESTIGATION AND ANY OTHER INFORMATION AT YOUR DISPOSAL, WHAT DO YOU BELIEVE TO BE THE CAUSE OF THE POSITIVE TOTAL COLIFORM SAMPLES FROM YOUR PUBLIC WATER SYSTEM?

Based upon testing we have determined that the bacteria are coming from the Well. I believe due to the drought situation it may be having an effect on the water quality. We have began continuous chlorination to the distribution system and will continue to try and correct the problem.

CERTIFICATION: I CERTIFY THAT THE INFORMATION SUBMITTED IN RESPONSE TO THE QUESTIONS ABOVE IS ACCURATE TO THE BEST OF MY PROFESSIONAL KNOWLEDGE

NAME: Tyler Thomas, S&S Water Service TITLE: Water System Operator. DATE: 10/20/14

