CONSUMER CONFIDENCE REPORT

TCEQ CERTIFICATION of DELIVERY

For Calendar year 2015

Public Water System(PWS) Name: CITY OF BANDERA

PWS ID Number: TX0100012

I certify that the community water system named above has distributed the Consumer Confidence Report (CCR) for the calendar year of 2015 and that the information in the report is correct and consistent with the compliance monitoring data previously submitted to the TCEQ. Public Water Systems **serving 500 or fewer persons** are not required to mail the entire CCR to their customers as long as the system provides notice at least once per year by July 1 to its customers by mail, door-to-door delivery, or by posting in an appropriate location that the report is available upon request.

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Date of Delivery:	0609 2016	100		
Certified By:	Name (print):	Kollels!	100	
्रा राष्ट्रपात्रक सम्बद्धाः -	Title:	BLIC WORK	1 DIRECTOR	
	Phone Number: &	30488-1729 Email:	PUBLICHONESEVIL	BUS
	st in 1	Control of the Contro	y city of some	7. 600
Signature:	14 mgm		Date DE DE 1016	
Direct delivery	methods-You must	use at least one direct deliv	very method (check all that appl	y)
Mail a pap	er copy of the CCR	न्त्राच स्थलन नामका व अनुसार प्राप्त १८६५ छ। ५ -		i ji
Electronic Deliver	rv:			
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Good-faith deli	very methods -To re CCR on the Internet	each people who do not re	ceive bills (check all that apply):	i.
Mailing the	- CCR to people who r	eceive mail, but who do no	ot receive bills.	
Δdvertisin	g the availability of the	e CCR in news media.		
	CCR in public places			
Delivering	multiple copies to sing	gle billing addresses servir	ng multiple persons.	
Delivering	multiple copies of the	CCR to community organ	izations.	
*Systems serving	100,000 or more peo	ple are required to post the	e CCR on a publicly available we	eb.
site and provide t	he URL here: http://_			
All systems are	required to mail b	y July ithe certification	n of delivery and complete	
		TCEO recommends the us	e of certified mail.	
Sending by certifi	ed mail:	Sending by regular i	nau:	
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PDW, MC-155, A		PDW, MC-155, Attn	CUR	
12100 Park 35 Ci		PO Box 13087	000	
Austin, TX 78753	1	Austin, TX 78711-30	λδ./	

Annual Drinking Water Quality Report

TX0100012

CITY OF BANDERA

Annual Water Quality Report for the period of January 1 to December 31, 2015

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

For more information regarding this report contact:

Name Kay CLAYION

Phone

CITY OF BANDERA is Ground Water

Sources of Drinking Water

or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pickup substances resulting from the presence of animals or from human activity. The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land

(800) 426-4791. indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily

Contaminants that may be present in source water include

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife
- and gas production, mining, or farming. Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- from gas stations, urban storm water runoff, and septic systems. Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come

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Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities

regulations establish limits for contaminants in bottled water which must provide the same protection for public health In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA

information on taste, odor, or color of drinking water, please contact the system's business office. Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more

steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your Hotline (800-426-4791). physician or health care providers Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or

plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead

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06/28/2016

Information about Source Water Assessments

A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus source water protection strategies.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://gis3.tceq.state.tx.us/swav/Controller/index_jsp?wtrsrc=

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://dww.tceq.texas.gov/DWW

4 - MULBERRY ST	Source Water Name
MULBERRY ST	
GW	Type of Water
Active	Report Status
Trinity Aquifer	Location

5 - DALLAS DR

DALLAS DR

G₩

Active

Trinity Aquifer

your water system are based on this susceptibility and previous sample data. Any detections of these contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our system, contact [insert name of person to contact] The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for

06/28/2016

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ONLY INCLUDE THE TABLE ON YOUR CCR, DO NOT INCLUDE THE INSTRUCTIONS

Disinfectant Residual Table

The disinfectant residual table is not added to the CCR template so you must add it to your CCR. You will need to add data to the fields indicated by A-G. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQORs).

If you use more than one type of disinfectant then you will need to list all of them. **Every system** in Texas is required to maintain and measure the disinfectant residual in their water, even if you are purchase only.

Disinfectant	Year	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Chlorine	2015	187	0.44	2.96	4.0	4.0	ppm	N	Water additive used to control microbes.

You will need to add:

- A. the type of disinfectant your system uses,
- B. the highest running annual average of disinfectant for the year,
- C. minimum level detected for the year,
- D. maximum level detected for the year,
- E. the MRDL, this is a limit set by TCEQ,
- F. the MRDLG, this is a limit set by TCEQ,
- G. add a Y (for yes) if you have a violation associated with the disinfectant residual or add a N (for no) if you do not have a violation associated with the disinfectant residual.

The MRDL and MRDLG for chlorine, chloramines, chlorine dioxide and bromate can be found in 30 Texas Administrative Code (TAC) 290.275(1) **Appendix B-**Sources of Regulated Contaminants located at

http://www.teeg.texas.gov/publications/rg/rg-346.html.

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety. Action Level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL) 90th Percentile # Sites Over AL	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2015	1.3	1.3	0.1567	0	ppm	Z	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2015	0	15	6.9	1	ppb	z	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

NTU nep	na: not	MFL mill	Maximum residual disinfectant level goal or MRDLG: The	Maximum residual disinfectant level or MRDL: The cont	Maximum Contaminant Level Goal or MCLG: The	Maximum Contaminant Level or MCL:	Avg: Reg	Definitions: The
nephelometric turbidity units (a measure of turbidity)	not applicable.	million fibers per liter (a measure of asbestos)	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.	The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.	Regulatory compliance with some MCLs are based on running annual average of monthly samples.	The following tables contain scientific terms and measures, some of which may require explanation.

PCi/L

picocuries per liter (a measure of radioactivity)

Water Quality Test Results

þqq ppt ppm: ppb: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water. parts per quadrillion, or picograms per liter (pg/L) micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. parts per trillion, or nanograms per liter (ng/L)

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Xylenes 2015 0.0028 0 - 0.0028 10 10 ppm	Ethylbenzene 2015 0.6 0-0.6 700 ppb	Volatile Organic Collection Date Highest Level Detected Range of Levels Detected MCLG MCL Units	Gross alpha excluding radon 2015 3.9 3.9-3.9 0 15 pC/L and uranium	Combined Radium 226/228 2015 3.9 3.9 -3.9 0 5 pCi/L	*EPA considers 50 pCi/L to be the level of concern for beta particles.	Beta/photon emitters 2015 12.9 12.9 - 12.9 0 50 pCi/L*	Radioactive Contaminants Collection Date Highest Level Range of Levels MCLG MCL Units Detected Detected	Nitrate [measured as 2015 0.05 0.03 - 0.05 10 ppm Nitrogen	Fluoride 2015 1.95 1.95 - 1.95 4 4.0 ppm	Barium 06/26/2013 0.0849 0.0849 - 0.0849 2 2 ppm	Inorganic Contaminants Collection Date Highest Level Range of Levels MCLG MCL Units Detected Detected	Total Tribalomethanes 2015 5 4.6 - 4.6 No goal for the total	Disinfectants and Disinfection Collection Date Highest Level Range of Levels MCLG MCL Units By-Products Detected Detected
10	700	MCL	15	5		50	MCL	10	4.0	2	MCL	80	MCL
ppm	qdd	Units	рСі⁄І	pCi/L		pCi/L*	Units	ppm	ppm	ppm	Units	ppb	Units
z	Z	Violation	Z	z		Z	Violation	Z	z	Z	Violation	z	Violation
Discharge from petroleum factories; Discharge from	Discharge from petroleum refineries.	Likely Source of Contamination	Erosion of natural deposits.	Erosion of natural deposits.		Decay of natural and man-made deposits.	Likely Source of Contamination	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	Likely Source of Contamination	By-product of drinking water disinfection.	Likely Source of Contamination

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Lead and Copper Rule			
The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water containing plumbing materials.	y minimizing lead and c	opper levels in drinking	water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper
Violation Type	Violation Begin	Violation End	Violation Explanation
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	10/01/2013	09/29/2015	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	10/01/2014	09/29/2015	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Public Notification Rule

LEAD CONSUMER NOTICE (LCR)

12/30/2015

02/29/2016

We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.

The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).

PUBLIC NOTICE RULE LINKED TO 02/13/2014 2015 We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.	Violation Type	Violation Begin	Violation End	in Violation End Violation Explanation
VIOLATION	PUBLIC NOTICE RULE LINKED TO VIOLATION	02/13/2014	2015	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.