Consumer Confidence Report

Information Specific to Your Community Public Water System

2012 Annual Drinking Water Quality Report

City of West Columbia

(979)345-3123

Source(s) of Water:

Type(s) of water: Groundwater
Body(ies) of water: Brazos & Colorado River Basins
Location of body(ies) of water: Brazoria County

Public Participation Opportunities:

Date: Monday, August 12, 2013
Time: 7:00 P.M.
Location: W.C. Council Chambers @ 512 E. Brazos

Source Water Assessment Protection:

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

Definitions and Terms:

Treatment technique (TT): A required process intended to reduce the level of a contaminant in drinking water. *Action level (AL):* The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. *Maximum contaminant level goal (MCLG):* The level of a contaminant in drinking water below which there is no known or expected risk to health. *Maximum Contaminant Level (MCL):* The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to maximum contaminant level goals as feasible using the best available treatment technology. *Parts per million (ppm),* or millagrams per liter. *Parts per billion (ppb),* or micrograms per liter. *Parts per trillion (ppt),* or nanograms per liter.

Information on Detected Contaminants:

The data presented in the report is from the most recent testing done in accordance with the regulations.

Inorganic Contaminants:

Name of Inorganic Contaminant	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Antimony	3/09/11	<detect level	0 - 0	6	6	ppb	N	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder.
Arsenic	3/09/11	<detect level	0 - 0	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics wastes.
Barium	3/09/11	0.722	0.258 - 0.722	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Beryllium	3/09/11	<detect level	0 - 0	4	4	ppb	N	Discharge from metal refineries and coal burning factories; Discharge from electrical, aerospace, and defense industries.
Cadmium	3/09/11	<detect level	0 - 0	5	5	ppb	N	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; Runoff from waste batteries and paints.
Fluoride	3/09/11	0.49	0.19 – 0.49	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Mercury	3/09/11	<detect level	0 - 0	2	2	ppb	N	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.
Nitrate	04/19/2012	0.01 MG/L	0 – 0.01	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Synthetic Organic Contaminants including Pesticides and Herbicides:

Name of Organic Contaminant	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
2,4-D	10/05/11	<detect level	0 -0	70	70	ppb	N	Runoff from herbicide used on row crops.
2,4,5-TP (Silvex)	10/05/11	<detect level	0 -0	50	50	ppb	N	Residue of banned herbicide.
Alachlor	4/19/12	<detect level	0 - 0	0	2	ppb	N	Runoff from herbicide used on row crops.
Atrazine	04/19/12	<detect level	0 - 0	3	3	ppb	N	Runoff from herbicide used on row crops.
Benzo(a)pyrene (PAH)	4/19/12	<detect level	0 - 0	0	200	ppt	N	Leaching from linings of water storage tanks and distribution lines.
Carbofuran	10/05/11	<detect level	0 -0	40	40	ppb	N	Leaching of soil fumigant used on rice and alfalfa.
Chlordane	4/19/12	<detect level	0 - 0	0	2	ppb	N	Residue of banned termiticide.
Dalapon	10/05/11	<detect level	0 -0	200	200	ppb	N	Runoff from herbicide used on rights of way.
Di(2-ethylhexyl)adipate	4/19/12	<detect level	0 -0	400	400	ppb	N	Discharge from chemical factories.
Di(2-ethylhexyl)phthalate	4/19/12	<detect level	0 -0	0	6	ppb	N	Discharge from rubber and chemical factories.
Dinoseb	10/05/11	<detect level	0 -0	7	7	ppb	N	Runoff from herbicide used on soybeans and vegetables.
Endrin	4/19/12	<detect level	0 -0	2	2	ppb	N	Residue of banned insecticide.
Ethylene Dibromide	10/05/11	<detect level	0 -0	0	50	ppt	N	Discharge from petroleum refineries.
Heptachlor	4/19/12	<detect level	0 -0	0	400	ppt	N	Residue of banned termiticide.
Heptachlor Epoxide	4/19/12	<detect level	0 -0	0	200	ppt	N	Breakdown of heptachlor.
Hexachlorobenzene	4/19/12	<detect level	0 -0	0	1	ppb	N	Discharge from metal refineries and agricultural chemical factories.
Hexachlorocyclopentadiene	4/19/12	<detect level	0 -0	50	50	ppb	N	Discharge from chemical factories.
Methoxychlor	4/19/12	<detect level	0 -0	40	40	ppb	N	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl	10/05/11	<detect level	0 -0	200	200	ppb	N	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes.
Pentachlorophenol	4/19/12	<detect level	0 -0	0	1	ppb	N	Discharge from wood preserving factories.
Picloram	10/05/11	<detect level	0 -0	500	500	ppb	N	Herbicide runoff.
Simazine	4/19/12	<detect level	0 -0	4	4	ppb	N	Herbicide runoff.
Toxaphene	4/19/12	<detect level	0 -0	0	3	ppb	N	Runoff/leaching from insecticide used on cotton and cattle.

Volatile Organic Contaminants:

Name of Organic Contaminant	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Benzene	3/09/11	< Detection Limit	0 -0	0	5	ppb	N	Discharge from factories; Leaching from gas storage tanks and landfills.
Carbon Tetrachloride	3/09/11	< Detection Limit	0 -0	0	5	ppb	N	Discharge from chemical plants and other industrial activities.
Chlorobenzene	3/09/11	< Detection Limit	0 -0	100	100	ppb	N	Discharge from chemical and agricultural chemical factories.

o-Dichlorobenzene	3/09/11	< Detection Limit	0 -0	600	600	ppb	N	Discharge from industrial chemical factories.
p-Dichlorobenzene	3/09/11	< Detection Limit	0 -0	75	75	ppb	N	Discharge from industrial chemical factories.
1,2-Dichloroethane	3/09/11	< Detection Limit	0 -0	0	5	ppb	N	Discharge from industrial chemical factories.
1,1-Dichloroethylene	3/09/11	< Detection Limit	0 -0	7	7	ppb	N	Discharge from industrial chemical factories.
Cis-1,2-Dichloroethylene	3/09/11	< Detection Limit	0 -0	70	70	ppb	N	Discharge from industrial chemical factories.
Trans-1,2-Dichloroethylene	3/09/11	< Detection Limit	0 -0	100	100	ppb	N	Discharge from industrial chemical factories.
Dichloromethane	3/09/11	< Detection Limit	0 -0	0	5	ppb	N	Discharge from pharmaceutical and chemical factories.
1,2-Dichloropropane	3/09/11	< Detection Limit	0 -0	0	5	ppb	N	Discharge from industrial chemical factories.
Ethylbenzene	3/09/11	< Detection Limit	0 -0	700	700	ppb	N	Discharge from petroleum refineries.
Styrene	3/09/11	< Detection Limit	0 -0	100	100	ppb	N	Discharge from rubber and plastic factories; Leaching from landfills.
Tetrachloroethylene	3/09/11	< Detection Limit	0 -0	0	5	ppb	N	Leaching from PVC pipes; Discharge from factories and dry cleaners.
1,2,4-Trichlorobenzene	3/09/11	< Detection Limit	0 -0	70	70	ppb	N	Discharge from textile finishing factories.
1,1,1-Trichloroethane	3/09/11	< Detection Limit	0 -0	200	200	ppb	N	Discharge from metal degreasing sites and other factories.
1,1,2-Trichloroethane	3/09/11	< Detection Limit	0 -0	3	5	ppb	N	Discharge from industrial chemical factories.
Trichloroethylene	3/09/11	< Detection Limit	0 -0	0	5	ppb	N	Discharge from metal degreasing sites and other factories.
Toluene	3/09/11	< Detection Limit	0 -0	1	1	ppm	N	Discharge from petroleum factories.
Vinyl Chloride	3/09/11	< Detection Limit	0 -0	0	2	ppb	N	Leaching from PVC piping; Discharge from plastics factories.
Xylenes	3/09/11	< Detection Limit	0 -0	10	10	ppm	N	Discharge from petroleum factories; Discharge from chemical factories.

Lead and Copper:

Lead or Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Source of Contaminant
Lead	3/09/11	0	15	<detection limit	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper	3/09/11	1.3	1.3	0.056	0	ppm	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfectants and Disinfection By-Products:

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Name of Disinfectants and Disinfection By-Products	Collection	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
TTHMs (Total trihalomethanes)	7/07/10	26.5	20.8 – 26.5	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 Positive Monthly Sample	1		0	N	Naturally present in the environment