### CONSUMER CONFIDENCE REPORT

Report Covers Calendar Year: January 1 – December 31, 2014

Este informe contiene informactión muy importante sobre el aqua usted bebe. Tradúscalo ó hable con alguien que lo entienda bien.

#### I. Public Water System (PWS) Information

#### **II. Drinking Water Sources**

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land 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.

Our water source(s): Colorado River

### **III. Consecutive Connection Sources**

A system may receive partial or all of its water from another public water system. Public water systems that purchase water from another system report regulated contaminants detected from the source water supply in a separate table. EIA does not purchase water from other systems.

## IV. Drinking Water Contaminants

Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides that may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban stormwater runoff, and septic systems.

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

## V. Vulnerable Population

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 indicate that water poses a health risk. Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and microbiological contaminants call the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

## VI. Source Water Assessment

In its 2003 Source Water Assessment Report ADEQ determined that EIA's water system's source is hydrogeologically sensitive and has given a low risk designation for the degree to which EIA's drinking water sources are protected. A low risk designation indicates that most source water protection measures are either already implemented or the hydrogeology is such that the source water protection measures will have little impact on protection.

## VII. Definitions

AL = Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements.

MCL = Maximum Contaminant Level - The "Maximum Allowed" is the highest level of a contaminant that is allowed in drinking water.

MCLG = Maximum Contaminant Level Goal - The "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to health.

MFL = Million fibers per liter.

MRDL = Maximum Residual Disinfectant Level.

MRDLG = Maximum Residual Disinfectant Level Goal.

MREM = Millirems per year – a measure of radiation absorbed by the body.

NA = Not Applicable, sampling was not completed by regulation or was not required.

NTU = Nephelometric Turbidity Units, a measure of water clarity.

PCi/L = Picocuries per liter - picocuries per liter is a measure of the radioactivity in water.

<u>PPM = Parts per million</u> or Milligrams per liter (mg/L).

<u>PPB = Parts per billion</u> or Micrograms per liter ( $\mu$ g/L).

ppm x 1000 = ppbppb x 1000 = ppt

 $\underline{PPT} = \underline{Parts} \ \underline{per} \ \underline{trillion}$  or Nanograms per liter.

ppt x 1000 = ppq

<u>PPQ = Parts per quadrillion</u> or Picograms per liter.

TT = Treatment Technique - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

#### VIII. Health Effects Language

**Nitrate** in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods-of-time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Infants and young children are typically more vulnerable to **lead** in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested. Flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

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IX. Water Quality Data

IX. Water Quality Data							
Microbiological	Violation Y or N	Number of Samples Present <u>OR</u> Highest Level Detected	Absent (A) or Present (P) OR Range of All Samples (L-H)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Total Coliform Bacteria (System takes ≥ 40 monthly samples) 5% of monthly samples are positive; (System takes ≤ 40 monthly samples) 1 positive monthly sample	NO	NONE	ABSENT	0	0	ALL, Monthly 2014	Naturally Present in Environment
Fecal coliform and E. Coli (TC Rule)				0	0		Human and animal fecal waste
Fecal Indicators (E. coli, enterococci or coliphage) (GW Rule)				0	0		Human and animal fecal waste
Total Organic Carbon (ppm)				TT	n/a		Naturally present in the environment
Turbidity (NTU), surface water only	NO	0.369	0.023-0.369 Avg. = 0.160	TT	n/a	May, 2014 (Continuously monitored.)	Soil Runoff
Disinfectants	Violation Y or N	Running Annual Average (RAA)	Range of All Samples (L-H)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Chloramines (ppm)				MRDL = 4	MRDLG = 4		Water additive used to control microbes
Chlorine (ppm)	NO	1.38	0.09-3.9	MRDL = 4	MRDLG = 4	ALL, Daily, 2014	Water additive used to control microbes
Chloride dioxide (ppb)				MRDL = 800	MRDLG = 800		Water additive used to control microbes
Disinfection By-Products	Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (L-H)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Haloacetic Acids (ppb) (HAA5)	NO	27.2	18.0-41.0	60	n/a	Jan. 2014	Byproduct of drinking water disinfection
Total Trihalomethanes (ppb) (TTHM)	NO	61.8	37.0-110.0	80	n/a	July, 2014	Byproduct of drinking water disinfection
Bromate (ppb)				10	0		Byproduct of drinking water disinfection
Chlorite (ppm)				1	0.8		Byproduct of drinking water disinfection
Lead & Copper	Violation Y or N	90 <sup>th</sup> Percentile AND Number of Samples Over the AL	Range of All Samples (L-H)	AL	ALG	Sample Month & Year	Likely Source of Contamination
Copper (ppm)	NO	90 <sup>th</sup> Percentile = 0.46; None	0.022-0.99	AL = 1.3	ALG = 1.3	June, 2014	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	NO	90 <sup>th</sup> Percentile = 4.2; None	<1.0-6.4	AL = 15	0	June, 2014	Corrosion of household plumbing systems; erosion of natural deposits
Radionuclides	Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (L-H)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Beta / photon emitters (mrem/yr)				4	0		Decay of natural and man-made deposits
Alpha emitters (pCi/L)		4.0±0.9	4.0±0.9	15	0	Feb. 2014	Erosion of natural deposits
Combined Radium 226 & 228 (pCi/L)		< 0.5	<0.5	5	0	Feb. 2014	Erosion of natural deposits
Uranium (pCi/L)				30	0		Erosion of natural deposits
Inorganic Chemicals (IOC)	Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (L-H)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Antimony (ppb)	NO	<1.2	<1.2	6	6	March, 2011	Discharge from petroleum refineries; fire retardants; ceramics, electronics and solder
Arsenic (ppb)	NO	2.1	2.1	10	0	March, 2011	Erosion of natural deposits, runoff from orchards, runoff from

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				1	1	l	glass and electronics
							production wastes
Asbestos (MFL)	NO	<0.2	<0.2	7	7	March, 2011	Decay of asbestos cement water mains; Erosion of natural deposits
Barium (ppm)	NO	0.12	0.12	2	2	March, 2011	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	NO	0	0	4	4	March, 2011	Discharge from metal refineries and coal- burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	NO	<1.0	<1.0	5	5	March, 2011	Corrosion of galvanized pipes; natural deposits; metal refineries; runoff from waste batteries and paints
Chromium (ppb)	NO	<20	<20	100	100	March, 2011	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide (ppb)	NO	<40	<40	200	200	March, 2011	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	NO	0.32	0.32	4	4	March, 2011	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (ppb)	NO	<0.4	<0.4	2	2	March, 2011	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills and cropland.
Nitrate (ppm)	NO	4.3	2.5-4.3	10	10	3/10, 3/11, 2/12, 2/13, 2/14	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (ppm)	NO	<0.2	<0.2	1	1	March, 2011	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	NO	<10	<10	50	50	March, 2011	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	NO	<0.4	<0.4	2	0.5	March, 2011	Leaching from ore- processing sites; discharge from electronics, glass, and drug factories
Synthetic Organic Chemicals (SOC)	Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (L-H)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
2,4-D (ppb)				70	70		Runoff from herbicide used on row crops
2,4,5-TP (Silvex) (ppb)				50	50		Residue of banned herbicide
Acrylamide				ТТ	0		Added to water during sewage / wastewater treatment
Alachlor (ppb)				2	0		Runoff from herbicide used on row crops
Atrazine (ppb)				3	3		Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH) (ppt)				200	0		Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)				40	40		Leaching of soil

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			I	I	fumigant used on
					rice and alfalfa  Residue of banned
Chlordane (ppb)			2	0	termiticide Runoff from
Dalapon (ppb)			200	200	herbicide used on rights of way
Di (2-ethylhexyl) adipate (ppb)			400	400	Discharge from chemical factories
Di (2-ethylhexyl) phthalate (ppb)			6	0	Discharge from rubber and chemical factories
Dibromochloropropane (ppt)			200	0	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)			7	7	Runoff from herbicide used on soybeans and vegetables
Diquat (ppb)			20	20	Runoff from herbicide use
Dioxin [2,3,7,8-TCDD] (ppq)			30	0	Emissions from waste incineration and other combustion; discharge from chemical factories
Endothall (ppb)			100	100	Runoff from herbicide use
Endrin (ppb)			2	2	Residue of banned insecticide
Epichlorohydrin			TT	0	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide (ppt)			50	0	Discharge from petroleum refineries
Glyphosate (ppb)			700	700	Runoff from herbicide use
Heptachlor (ppt)			400	0	Residue of banned temiticide
Heptachlor epoxide (ppt)			200	0	Breakdown of heptachlor
Hexachlorobenzene (ppb)			1	0	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclo pentadiene (ppb)			50	50	Discharge from chemical factories
Lindane (ppt)			200	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)			40	40	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate] (ppb)			200	200	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls] (ppt)			500	0	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol (ppb)			1	0	Discharge from wood preserving factories
Picloram (ppb)			500	500	Herbicide runoff
Simazine (ppb)			4	4	Herbicide runoff

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Toxaphene (ppb)				3	0		Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Chemicals (VOC)	Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (L-H)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Benzene (ppb)	NO	<0.5	<0.5	5	0	March 2011, Feb. 2014	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	NO	<0.5	<0.5	5	0	March 2011, Feb. 2014	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	NO	<0.5	<0.5	100	100	March 2011, Feb. 2014	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	NO	<0.5	<0.5	600	600	March 2011, Feb. 2014	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	NO	<0.5	<0.5	75	75	March 2011, Feb. 2014	Discharge from industrial chemical factories
1,2-Dichloroethane (ppb)	NO	<0.5	<0.5	5	0	March 2011, Feb. 2014	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	NO	<0.5	<0.5	7	7	March 2011, Feb. 2014	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	NO	<0.5	<0.5	70	70	March 2011, Feb. 2014	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	NO	<0.5	<0.5	100	100	March 2011, Feb. 2014	Discharge from industrial chemical factories
Dichloromethane (ppb)	NO	<0.5	<0.5	5	0	March 2011, Feb. 2014	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)		<0.5	<0.5	5	0	March 2011, Feb. 2014	Discharge from industrial chemical factories
Ethylbenzene (ppb)	NO	<0.5	<0.5	700	700	March 2011, Feb. 2014	Discharge from petroleum refineries
Styrene (ppb)	NO	<0.5	<0.5	100	100	March 2011, Feb. 2014	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	NO	<0.5	<0.5	5	0	March 2011, Feb. 2014	Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene (ppb)	NO	<0.5	<0.5	70	70	March 2011, Feb. 2014	Discharge from textile-finishing factories
1,1,1-Trichloroethane (ppb)	NO	<0.5	<0.5	200	200	March 2011, Feb. 2014	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	NO	,0.5	<0.5	5	3	March 2011, Feb. 2014	Discharge from industrial chemical factories
Trichloroethylene (ppb)	NO	<0.5	<0.5	5	0	March 2011, Feb. 2014	Discharge from metal degreasing sites and other factories
Toluene (ppm)	NO	<0.5	<0.5	1	1	March 2011, Feb. 2014	Discharge from petroleum factories
Vinyl Chloride (ppb)	NO	<0.3	<0.3	2	0	March 2011, Feb. 2014	Leaching from PVC piping; discharge from chemical factories
Xylenes (ppm)	NO	<0.5	<0.5	10	10	March 2011, Feb. 2014	Discharge from petroleum or

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			chemical factories

### X. Cryptosporidium Monitoring (surface water systems only)

By law, we are not required to perform Cryptosporidium monitoring.

We believe it is important for you to know that *Cryptosporidium* may cause serious illness in immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders. These people should seek advice form their health care providers.

# XI. Stage 2 Disinfectants and Disinfection By-Products Rule

Stage 2 DBP Rule required some systems to complete an Initial Distribution System Evaluation (IDSE) to characterize DBP levels in their distribution systems and identify locations to monitor DBPs for Stage 2 DBP Rule compliance. The following table summarizes the individual sample results for the IDSE standard monitoring performed in 2013.

Contaminant	Number of Analyses	Minimum Level Detected	Highest Level Detected	
Haloacetic Acids (HAA5) (ppb)	8	18.0	41.0	
Total Trihalomethanes (TTHM) (ppb)	8	37.042.0	110.0	

#### XII. Violations

Type / Description	Compliance Period	Corrective Actions taken by PWS
NONE		

An explanation of the violation(s) in the above table, the steps taken to resolve the violation(s) and any required health effects information are required to be included with this report. (Attach copy of Public Notice if available.)

### XIII. Sodium

Sodium is a major mineral and it is found in the fluid surrounding the cells in the body. Sodium helps to regulate blood pressure and fluid volume, and it also helps maintain pH balance. The muscles and nervous system also need sodium to function properly. Sodium in the water supply is regulated neither by the EPA nor the State. However, EIA does test for the sodium content in the water.

Date	Concentration in mg/L (ppm)		
March, 2011	97		

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