

## 2012 Annual Drinking Water Quality Report (Consumer Confidence Report)

Emerald Lakes  
PWS # TX1700777  
936-756-7400

Annual Water Quality Report for the period of January 1 to December 31, 2012

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.

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. More information about contaminants and potential health effects can be obtained by call the EPAs Safe Drinking Water Hotline at (800) 426-4791.

For more information regarding this report contact:

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**Phon**        **936-756-7400**  
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**En Español :** Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (936)-756-7400 para hablar con una persona bilingüe en español.

### SPECIAL NOTICE

#### Required language for ALL community public water supplies:

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly or immune compromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing treatment with 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 physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791

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 components associated with service lines and home plumbing. We cannot control the variety of materials used in 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 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>.

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 or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick-up substances resulting from the presence of: Contaminants that may be present in source

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

**Information about Secondary Constituents** - Many constituents (such as calcium, sodium, or iron) which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

**Information about Source Water Assessments:** A Source Water Susceptibility Assessment for your drinking water sources(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 sources 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 a 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/>

#### Water Quality Test Results

Maximum Contaminant Level Goal or  Maximum Contaminant Level or MCL:  Maximum residual disinfectant level goal or MRDLG Avg: ppm: ppb: na: <b>Definitions::</b>	-The level of a contaminant in drinking water below which there is no known or expected risk to health. MGLGs allow for a margin of safety. -The highest level of a contaminant that is allowed in drinking water. MCLs are not as close to the MCLGs as feasible using the best available treatment technology. -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. -Regulatory compliance with some MCLs are based on running annual average of monthly samples -milligrams per liter or parts per million - or one ounce in 7,350 gallons of water -micrograms per liter or parts per billion - or one ounce in 7,350 gallons of water not applicable <b>The following tables contain scientific terms and measures, some of which may require explanation</b>
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#### Coloform 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	Violati on	Likely Source of Contamination
0	1 positive monthly sample	There were no TCR detections for this system in this CCR period	0	0	N	Naturally present in the environment.

#### Lead & Copper

Collection Date	MCL G	Action Level (AL)	90 <sup>th</sup> Percentile	# Sites Over AL	Units of Measure	Violatio ns	Likely Source of Contaminant
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08/04/2010	Copper	1.3	1.3	0.178	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
08/04/2010	Lead	0	15	0.452	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

<b>Regulated Contaminants</b>								
Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant
07/30/2009	Haloacetic Acids (HAAS)*	Levels lower than detect level	0 - 0	No goal for the total	60	ppb	N	By-product of drinking water chlorination.
Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future								
08/05/2010	Total Trihalomethanes (TTHm)	Levels lower than detect level	0 - 0	No goal for the total	80	ppb	N	By-product of drinking water chlorination..
Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future								

<b>Radioactive Contaminants</b>								
Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant
2012	Beta/photon emitters	4.8	4.8 - 4.8	0	50	pCi/L*	N	Decay of natural and man-made deposits.
2012	Combined Radium 226/228	3.2	3.2- 3.2	0	5	pCi/L	N	Erosion of natural deposits.
2012	Gross alpha excluding radon and uranium	7.1	7.1-7.1	0	15	pCi/L	N	Erosion of natural deposits.

**\*EPA considers 50 pCi/L to be the level of concern for beta particles.**

<b>Volatile Organic Contaminants</b>								
Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant
2012	Xylenes	0.0006	0 - 0.0006	10	10	ppm	N	Discharge from petroleum factories; Discharge from chemical factories.

<b>Inorganic Contaminants including pesticides</b>								
Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant
03/24/2010	Alachlor	Levels lower than detect level	0 - 0	0	2	ppb	N	Runoff from herbicide used on row crops.
03/24/2010	Atrazine	Levels lower than detect level	0 - 0	3	3	ppb	N	Runoff from herbicide used on row crops.
2012	Arsenic	3.1	3.1- 3.1	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
2012	Barium	2.45	0.245 - 0.245	2	2	ppm	N	Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposits
03/24/2010	Chlordane	Levels lower than detect level	0 - 0	0	2	ppb	N	Residue of banned termiticide.
08/05/2010	Dalapon	Levels lower than detect level	0 - 0	200	200	ppb	N	Runoff from herbicide used on rights of way.
03/24/2010	Di (2-ethylhexyl) adipate	Levels lower than detect level	0 - 0	400	400	ppb	N	Discharge from chemical factories.
03/24/2010	Di (2-ethylhexyl) phthalate	Levels lower than detect level	0 - 0	0	6	ppb	N	Discharge from rubber and chemical factories..
03/24/2010	Endrin	Levels lower than detect level	0 - 0	2	2	ppb	N	Residue of banned insecticide.
2012	Fluoride	.14	0.14 - 0.14	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
03/24/2010	Heptachlor	Levels lower than	0 - 0	0	400	ppt	N	Residue of banned termiticide.

		detect level						
03/24/2010	Heptachlor epoxide	Levels lower than detect level	0 - 0	0	200	ppt	N	Breakdown of heptachlor.
03/24/2010	Hexachlorobenzene	Levels lower than detect level	0 - 0	0	1	ppb	N	Discharge from metal refineries and agricultural chemical factories.
03/24/2010	Hexachlorocyclopentadiene	Levels lower than detect level	0 - 0	50	50	ppb	N	Discharge from chemical factories.
03/24/2010	Lindane	Levels lower than detect level	0 - 0	200	200	ppt	N	Runoff/leaching from insecticide used on cattle, lumber, gardens.
03/24/2010	Methoxychlor	Levels lower than detect level	0 - 0	40	40	ppb	N	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock.
03/24/2010	Pentachlorophenol	Levels lower than detect level	0 - 0	0	1	ppb	N	Discharge from wood preserving factories.
03/24/2010	Simazine	Levels lower than detect level	0 - 0	4	4	ppb	N	Herbicide runoff.
03/24/2010	Toxaphene	Levels lower than detect level	0 - 0	0	3	ppb	N	Runoff/leaching from insecticide used on cotton and cattle.
2010	Nitrate (measured as Nitrogen)	Levels lower than detect level	0 - 0	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrate Advisory – Nitrate in drinking water at levels above 10 ppm is a health risk for infants or 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 you should ask advice from your health care provider.								