City Of Nicholasville Water Treatment Plant KY-0570315 Water Quality Report for year 2007 Manager: Thomas Calkins P.O. Box 450 Nicholasville Ky 40356 Phone: 8598859473

	P.O. B	Phone:	8598859473		
Water - Essential for Life	Meeting location: 51	CCR Contact:	James McDaniel		
	Meeting Dates and Time:	2nd & 4th Thursdays of the Month	5:00 p.m.	Phone:	8598856974

This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide our customers with a safe,

clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

Water is the most indispensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water source and the water system.

We are pleased to present this Annual Water Quality Report. The main source of water for Nicholasville customers is surface water from the Kentucky River (Pool # 8). This report is designed to inform the public about the quality of the water and services provided on a daily basis. Our commitment is to provide our customers with a safe, clean, and reliable supply of drinking water. We would like the public to be assured that we will continue to moniter, improve, and protect the water system and deliver a high quality water direct from the tap. We know that water is the most indespensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water source and the water system. Please report any activity that might jeopardize the water supply. The following is a summary of the systems susceptibility to contamination, which is part of the complete Source Water Assessment Plan (SWAP), and is available for inspection at the Water Treatment Plant. An analysis of the susceptability of the Nicholasville Utilities water supply to contamenation indicates that the susceptability is generally low.

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities).

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

Some people may be more vulnerable to contaminants in drinking water than the general population. 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, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate

means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Some or all of these definitions may be found in this report:	Information About Lead:
Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. MCLs are set	If present, elevated levels of lead can
as close to the MCLGs as feasible using the best available treatment technology.	cause serious health problems, especially
Maximum Contaminant Level Goal (MCLG) - the level of a contaminant in drinking water below which there is no	for pregnant women and young children.
known or expected risk to health. MCLGs allow for a margin of safety.	Lead in drinking water is primarily from
Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is	materials and components associated
convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.	with service lines and home plumbing.
Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no	Your local public water system is
known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial	responsible for providing high quality
contaminants.	drinking water, but cannot control the
Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.	variety of materials used in plumbing
<i>Not Applicable (N/A)</i> - does not apply.	components. When your water has been
Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a	sitting for several hours, you can
single penny in \$10,000.	hundring your tap for 20 accords to 2
<i>Parts per billion (ppb)</i> - or micrograms per liter, $(\mu g/L)$. One part per billion corresponds to one minute in 2,000 years, or a	minutes before using water for drinking or
single penny in \$10,000,000.	cooking If you are concorred about load
Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in	in your water, you may wish to have your
\$10,000,000.	water tested Information on lead in
Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in	drinking water, testing methods, and
	steps you can take to minimize exposure
Proceuries per liter (p(L/L) - a measure of the radioactivity in water.	is available from the Safe Drinking Water
<i>Millirems per year (mrem/yr)</i> - measure of radiation absorbed by the body.	Hotline or at
<i>Million Fibers per Liter (MFL)</i> - a measure of the presence of asbestos fibers that are longer than 10 micrometers.	http://www.epa.gov/safewater/lead.
Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity	
can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the	
filtration system.	
Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain	
conditions.	
Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a	
water system shall follow.	

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

he data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has
educed monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to
ear. Some of the data in this table, though representative, may be more than one year old. Unless otherwise noted, the report level is the highest level detected.

year. Some of t	of the data in this table, though representative, may be more than one year old. Others outer wise noted, the report lever is the nightest lever detected.					st level detected.		
	Allo	wable	Highest Sing	le	Lowest	Violation		
	Le	vels	Measuremen	ıt	Monthly %		Likely Source	
Turbidity (NT	No more than 1	NTU*						•
* Representativ	Less than 0.3 N	TU in		0.23	1	No		Soil runoff
of filtered wate	95% of monthly	y samples						
Inorganic Con	taminants		•				•	
Contaminant			Report	Range		Date of	Violation	Likely Source of
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination
Antimony [1074] (ppb)	6	6	1	1 to 1		Feb-07	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic [1005] (ppb)	10	N/A	0.001	.001 to .001		Feb-07	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium [1010] (ppm)	2	2	0.04	.042 to .042		Feb-07	No	Drilling wastes; metal refineries; erosion of natural deposits
Beryllium [1075] (ppb)	4	4	0.1	.1 to .1		Feb-07	No	Metal refineries and coal-burning factories;
Cadmium [1015] (ppb)	5	5	0.5	.5 to .5		Feb-07	No	electrical, aerospace, and defense industries Corrosion of galvanized pipes; erosion of natural deposits; metal refineries; waste
Chromium [1020] (ppb)	100	100	1	1 to 1		Feb-07	No	batteries and paints Discharge from steel and pulp mills; erosion of
Copper [1022] sites exceeding	AL = 1.3	1.3	0.300 (90 th percentile)	.005 to .785		Sep-07	No	natural deposits Corrosion of household plumbing systems
Cyanide [1024] (ppb)	200	200	10	10 to 10		Feb-07	No	Discharge from steel/metal factories; plastic and fertilizer factories
Fluoride [1025] (ppm)	4	4	1.16	.8 to 1.16		Mar-07	No	Water additive which promotes strong teeth
Lead [1030] (pj sites exceeding 0	AL = 15	0	(90" percentile)	1 to 5		Sep-07	No	Corrosion of household plumbing systems
Mercury [1035] (ppb)	2	2	1	1 to 1		Feb-07	No	Erosion of natural deposits; refineries and factories; landfills; runoff from cropland
Nitrate [1040] (ppm)	10	10	1	.049 to .049		Feb-07	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite [1041] (ppm)	1	1	0.05	.05 to .05		Feb-07	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium [1045] (ppb)	50	50	2	2 to 2		Feb-07	No	erosion of natural deposits; discharge from mines
Disinfectants/I	Disinfection By	products and P	recursors	1.00		1	1	
I otal Organic (arbon (ppm)	NT/ 4	1.26	1.00 to 1.53		31/4	Nia	
(measured as p	11*	N/A	(lowest	to	、 、	N/A	INO	Naturally present in enviromen
reported as a ra	tio)	1 1 .	average)	(monthly ratios	6) 6 (1 - (1 1		1.00	0 I'
*Monthly ratio	is the % TOC re	emoval achieved	to the % TOC:	removal required. Annual avera	ge of the monthl	y ratios must be	1.00 or greater	for compliance
(ppm)	= 4	= 4	(highest average)	.2 to 2.00		N/A	No	Water additive used to control microbes.
HAA (ppb) (a [Haloacetic aci	all sites) 60	N/A	48 (system average)	17 to 72 (range of system s	ites)	N/A	No	Byproduct of drinking water disinfection
TTHM (ppb) [total trihalome	(all sites) 80	N/A	58 (system average)	17 to 83 (range of system s	ites)	N/A	No	Byproduct of drinking water disinfection

EPA has not established drinking water standards for unregulated contaminants. There are no MCL's and therefore no violations if found.

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 01/01/07-12/31/07 we submitted a late sample for Voc's and therefore cannot be sure of the quality of our drinking water during that time.

There is nothing you need to do at this time. You do not need to use an alternative (e.g., bottled) water supply.

The table below lists the contaminant(s) we did not properly test for during the last year, how often we are supposed to sample for [this contaminant/these contaminants] and how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were (or will be) taken.

	required sampling	number of samples taken	samples should have been	when samples were or will
contaminant	frequency		taken	be taken
Voc's	Annually	1	1	Quarterly
Odor	Annually	1	1	Annually

The City of Nicholasville Water Treatment Plant was issued a Notice of Violation (NOV), for Volital Organics (VOC) from the Division of Water this year. The reason for the violation was because the results were not summitted by the proper date for compliance by the independent laboratory that ran the samples. The results were within compliance and did not exceed the Maximum Contamenent Level (MCL) set by the Division of Water. However, since the results were summitted after the deadline, the NOV resulted. There is no cause of alarm, nor has the drinking water been affected. The City of Nicholasville is required to notify the public of any violations so therefore we are explaining the NOV in this document.

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 notice in a public place or distributing copies by hand or mail.