

**IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER**  
**MOREHEAD UTILITY PLANT BOARD**  
**Monitoring Requirements Not Met**

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 May 2011 we did monitor for TOC AND RECEIVED OUR RESULTS AND WERE IN COMPLIANCE BUT THE LAB DID NOT SEND RESULTS TO THE DIVISION OF WATER WHICH CAUSED US TO RECEIVE A VIOLATION.*

**What should I do?**

There is nothing for you to do at this time.

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 the samples should have been taken, and the date on which follow-up samples were (or will be) taken.

Contaminant	Required Sampling Frequency	Number of Samples Taken	Samples Should Have Been Taken	When Samples Should Be Taken
TOC	MONTHLY	2	MAY 2011	MAY 2011

**What happened? Who is at risk? What is being done?**

WE SAMPLED FOR TOC'S IN MAY 2011 AND WE GOT OUR RESULTS FROM McCOY & McCOY AND WERE IN COMPLIANCE. THE LAB DID NOT SEND THE RESULTS TO THE DIVISION OF WATER SO WE GOT A MONITORING VIOLATION. WE PASSED THE TOC TEST AND WERE NOT OUT OF COMPLIANCE FOR THIS TEST, IT'S JUST THE DIVISION OF WATER NEVER GOT THEIR COPY.

For more information, Please contact: Mike Nickell  
 135 South Wilson Avenue  
 Morehead, KY 40351  
 606-784-5538

Email: rwilliams@mupb.com  
 Website: www.mupb.com

*Please share this information with all the other people who drink this water, especially those who may have not 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.*

This notice is being sent to you by: Morehead Utility Plant Board  
 Public Water System ID# Ky1030292

Date: 03/30/2012

**THINGS TO KEEP IN MIND**

- Our office is located at 135 South Wilson Ave. beside the Folk Art Center and across from the Morehead Conference Center. Our hours are 8:00 a.m. to 4:00 p.m. Monday - Friday.
- We offer pay in person, pay by mail, drop off payment (24 hr. night box by drive-through), & automatic bank draft.
- We accept Visa, MasterCard & debit cards.
- We offer Budget Gas Billing. (Must be on service one year. Sign-up in June/July.)
- We only service water and gas to your meter.
- We only service sewer to your property line.
- Please do not tamper with your meter, grinder, or any MUPB property. Call us if there is a problem.
- We service over 3,300 water connections, 1,800 gas connections, and over 4,400 sewer connections; so please be patient when calling in a service request.
- In accordance with state law, we require a 48 hour notice before completing any type of line locate. (In KY - 811) or (BUD LINE: 1-800-752-6007)

**24 hour Emergency Response**  
**(606) 784-5538**

MUPB is your utility company and we are grateful for the opportunity to serve you.



**Morehead Utility Plant Board**  
**135 S. Wilson Ave.**  
**Morehead, KY 40351**

**Morehead Utility Plant Board**  
**2011 Water Quality Report**

Morehead Utility Plant Board  
 135 S. Wilson Ave.  
 Morehead, KY 40351

(606) 784-5538 (24 hrs.)  
 TTY (606) 783-0548  
 FAX (606) 783-1340  
 TOLL FREE 1-877-784-6872

**“An Equal Opportunity Provider & Employer”**

We are pleased to present the 2011 Annual Drinking Water Quality Report to our valued customers. This report is designed to inform the public about the quality of the water MUPB delivers every day. Our goal is to provide you with a safe and reliable supply of drinking water. We want you to be aware of the efforts that are continually made to improve the water treatment process.

Our water source is the Licking River. The Licking River is a surface water source. The intake is located in Rowan County. The Morehead Utility Plant Board is committed to ensuring the highest quality of drinking water. Our water quality meets or exceeds all local, state, and federal regulations.

The Morehead Utility Plant Board routinely monitors for contaminants in your drinking water in compliance with federal and state laws. The following pages include a table that explains the results of our monitoring for the period of January 1 to December 31, 2011

Activities and land uses upstream of the Morehead Utility Plant Board's source water can pose potential risks to your drinking water. Under certain circumstances, contaminants could be released that would pose challenges to water treatment or even get into your drinking water. These activities, and how they are conducted, are of interest to the entire community because they potentially affect your health and the cost of treating your water. Activities immediately upstream of your water supply intake are of special concern because they provide little response time to the water system operators. An analysis of the susceptibility of the Morehead Utility Plant Board's raw water supply to contamination indicates that the susceptibility potential is generally moderate. There are a few areas of high concern near the raw water withdrawal site. Farming sites located in the area present the possibility for the impact from the application of pesticides and fertilizer. Bridges and major road ways used to access the Cave Run Lake recreational area also pose a threat to the intake should an accidental release of a harmful substance be introduced into the water source. Another source of potential concern in the critical protection area is a small wastewater package treatment plant located in the area. A small commercial airport and the presence of two underground storage tanks are also considered to be significant sites of concern. Other sites of medium concern include a marina, a fish hatchery, the presence of an underground storage tank and a small grocery/gas station, and a manufacturing industry. The complete Source Water Assessment is available at the Water Treatment Plant for inspection.

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. It can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

- 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, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming.
- pesticides and herbicides, which 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 by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and 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 that shall provide the same protect for public health.

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 the water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791).

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 systems disorders, some elderly, and infants can be particularly at risk from infections. These people should seek medical 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).

If present, elevated levels of lead can cause serious 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. The Morehead Utility Plant Board is responsible for providing high quality drinking water, but 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 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>

[A list of definitions has been provided to assist you with understanding the report.](#)

# Treated Water Quality Summary

PWSID KY1030292

**Notice:**  
Please post where all occupants or employees will see.

PARTICULATE TEST RESULTS					
	Allowable Levels	Highest Single Measurement	Lowest Monthly %	Violation Y/N	Likely Source
Turbidity	Never more than 1 NTU. Less than 0.3 NTU 95% of samples (All other filters) (TT).	.232 NTU	100	N	Soil Runoff

Turbidity has no health effects. However, turbidity can interfere with disinfections and provide a medium for microbial growth. Turbidity is a measure of treatment performance and is regulated as a treatment technique. Turbidity is measured in Nephelometric turbidity units (NTU), and is a measure of the clarity of the water. Turbidity in the excess of 5 NTU is just noticeable to the average person.

Contaminant [Code] (units)	MCL	MCLG	Highest Detection	Range	Date of Sample	Violation	Likely Source of Contamination
Total Coli-form Bacteria [3100] %Positive Samples	2 or more positive samples per month	0	1	NA	MAR	N	Naturally present in the environment
Total Organic Carbon (ppm) Measured as (ppm) reported in Ratio	TT	N/A	1.18 Lowest Average	.65-2.12 (Monthly Ratios)	N/A	N	Naturally present in environment
Haloacetic Acids (HAA5) (ppb)	60	N/A	51 Annual Average	28 - 59	N/A	N	Naturally present in environment
TTHM [total trihalomethanes] (ppb)	80	N/A	Average 70	.47-1.25	N/A	N	By-product of drinking water chlorination.
Chlorine (ppm)	MRDL 4	MRDLG 4	.83 (annual avg.)	.29-1.51	3rd Quarter 2011	N	Water additive used to control microbes

\* Monthly ratio is %TOC removal achieved to the % TOC removal required. Annual average of the monthly ratios must be 1.00 or greater for compliance.

## INORGANIC CONTAMINANTS

Barium [1010] (ppm)	2	2	0.023	0.023-0.023	03-11	N	Discharge of drilling waste, Discharge from metal refineries, Erosion of natural deposits.
Fluoride [1025] (ppm)	4	4	1.11	.89-1.50	1-11	N	Erosion of natural deposits; water additive, which promotes strong teeth; discharge from fertilizer and aluminum factories.
Copper [1022] (ppm) 0 site> al	1.3	1.3	90th Percentile 0.289	0.011-0.993	07-09	N	Corrosion of household plumbing system; erosion of natural deposits; leaching from wood preservatives.
Lead [1030] (ppb) 2 site> al	AL=15	0	14 90th Percentile	1-37	07-09	N	Corrosion of household plumbing systems
Nitrate (as Nitrogen) [1040] (ppm)	10	10	.200	0.200-0.200	03-11	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Radium [4030]	5	0	0.70	0.7-0.7	4-08	N	Certain minerals are radioactive and may emit forms of radiation known as photons and beta radiation. Some people who drink water containing beta particle and photon radioactivity in excess of the MCL over many years may have an increased risk of getting cancer.

## Definitions

**Non-Detect (ND)** – Laboratory analysis indicates that the contaminant is not present.

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

**Maximum Contaminant Level (MCL)** - MCL is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG as feasible using the best available treatment technologies.

**Maximum Contaminant Level Goal (MCLG)** - The "goal" (MCLG) is the level of a contaminant in drinking water below which there is known or expected risk to health. MCLG's allow for a margin of safety.

**Nephelometric Turbidity Unit (NTU)** - A unit of measurement used to measure the amount of turbidity in water.

**Parts Per Million (ppm)** – One part per million corresponds with one minute in two years or a single penny in \$10,000.

**Parts Per Billion (ppb)** – One part per billion corresponds with one minute in 2,000 years or one penny in \$10,000,000.

**Maximum Residual Disinfectant Level (MRDL)** - 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.

**Maximum Residual Disinfectant Goal (MRDLG)** - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of use of disinfectants to control microbial contaminants.

**Action Levels (AL)** – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**If you have any questions about this report or queries concerning your water service please contact:**

**Mike Nickell, General Manager**

**Morehead Utility Plant Board**

**PHONE: 606-784-5538**

**TOLL FREE: (877) 784-6872,**

**TTY: (606) 783-0548**

**FAX: (606) 783-1340**

**www.mupb.com**

**Our regularly scheduled board meeting is held on the last Tuesday of each month at 5:30 p.m. We want you to be informed about our water utility.**