SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE **WATER QUALITY REPORT – 2011**

To: SIUE Students, Faculty and Staff

no violation of a contaminant level or of any other present, coul migrate and reach our source water It risk. water quality standard during 2011. The attached also includes an inventory of potential sources of The sources of drinking water (both tap water and report summarizes the quality of water that we contamination within the delineated area, and a bottled water) include rivers, lakes, streams, providing high-quality drinking water but cannot provided during the year 2011 including details determination of the water supply's susceptibility ponds, reservoirs, springs and groundwater wells. control the variety of materials used in plumbing about where your water comes from, what it to contamination by the identified potential sources. As water travels over the surface of the land or components. When your water has been sitting for contains, and how it compares to standards set by According to the Source Water Assesment Plan, regulatory agencies. We are committed to our water system had a susceptibility rating of providing you with a safe and dependable supply of drinking water.

If you have any questions about this report or calling 618-692-7535. concerning your water system, please contact Ed Matecki (650-2258) or Paul Fuligni (650-2560) at **IMPORTANT HEALTH INFORMATION** Facilities Management, Monday through Friday Some people may be more vulnerable to between the hours of 8 a.m. and 4 p.m.

WATER SUPPLY INFORMATION

The University water system receives water from the City of Edwardsville into a 400,000 gallon underground reservoir. Water is pumped from there through a system of underground mains particularly at risk from infections. These people serving the entire campus and into a 500,000 gallon elevated tank which maintains system water pressure. A second connection to the Edwardsville water system at the east edge of campus near Highway 157 provides us with a backup should the primary system experience from the USEPA's Safe Drinking Water Hotline (1- are by-products of industrial processes and trouble.

The Edwardsville water works system is a municipal utility owned by the City of Edwardsville. Water is obtained from a well field IN DRINKING WATER located near the water treatment plant which To insure that tap water is safe to drink, the USEPA naturally occurring or be the result of oil and gas draws water from the American Bottoms prescribes regulations limiting the amount of Underground Aguifer. There are seven wells certain contaminants in water provided by public drilled to an average depth of approximately 114 water systems. U. S. Food and Drug feet. The water is filtered, softened and Administration regulations establish limits for

SOURCE WATER ASSESSMENT

This year as in years past your tap water met all A Source Water Assessment Plan (SWAP) is now United States Environmental Protection Agency available from the City of Edwardsville. This plan (USEPA) and state drinking water health standards. is an assessment of the delineated area around our We are able to report that your water system had listed sources through which contaminants, if not necessarily indicate that water poses a health 'medium'. A complete copy of this assessment may be obtained from the City of Edwardsville by

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 should seek advice about drinking water from their Disease Control) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* 800-426-4791).

SUBSTANCES THAT MIGHT BE

chemically treated with fluoride and chlorine. contaminants in bottled water, which must provide 426-4791).

the same protection for public health. Drinking **LEAD AND DRINKING WATER** water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does

occurring minerals and, in some cases, radioactive activity. Possible contaminants consist of:

- Microbial contaminants, such as viruses and bacteria, which 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 storm water runoff, industrial or domestic WATER QUALITY DATA TABLE wastewater discharges, oil and gas production, mining or farming;
- <u>Pesticides</u> and <u>herbicides</u>, which may come from storm water runoff and residential uses:
- Organic chemical contaminants, including and other microbial contaminants are available synthetic and volatile organic chemicals, which petroleum production, and can also come from gas stations, urban storm water runoff and septic systems:
 - Radioactive contaminants, which may be production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-

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 material and components associated with service lines and home plumbing. The City of Edwardsville is responsible for through the ground, it dissolves naturally several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds material, and can pick up substances resulting to 2 minutes before using water for drinking or from the presence of animals or from human cooking. If you are concerned about lead in your drinking water and wish to have your water tested, you may contact the Madison county Environmental Control lab at (618)296-5234. 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 www.epa.gove/safewater/lead.

The 2011 Water Quality Data Table, which follows, was prepared with data supplied by the Illinois Environmental Protection Agency. There health care providers. USEPA/CDC (Centers for a variety of sources such as agriculture, urban are two sections to the Table. The first shows data drawn from the parent source, as detailed in the City of Edwardsville 2011 Water Quality Report. The second provides data drawn directly from samples taken on the SIUE campus. The Water Quality Data Table lists detected water contaminants and their typical sources, the maximum contaminant level goal (MCLG), the maximum contaminant level (MCL), the level of contaminant concentration found, the range of detection and date of sampling. Undetected water contaminants are not listed in the Table. Sampling dates ranging back to 2009 are shown since Illinois requires us to monitor some contaminants less than once per vear because their concentrations do not change frequently.

2011 WATER QUALITY DATA—CITY OF EDWARDSVILLE SAMPLING

CONTAMINANTS (units) Typical Source of Contaminant	MCLG	MCL	Amount Detected	Range of Detection	Violation	Date of Sample
NORGANIC CONTAMINANTS						
ARIUM (ppm)	2	2	0.09	0.09 - 0.09	No	2009
Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.						
LUORIDE (ppm) ¹	4	4	0.98	0.87 – 1.1	No	2011
rosion of natural deposits; Water additive, which promotes strong teeth.						
Discharge from fertilizer and aluminum factories.	10	40	0.70	0.70 0.70	NI.	0044
IITRATE (ppm)	10	10	0.79	0.79 - 0.79	No	2011
Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits. ITRITE (ppm)	1	1	0.15	0.15 – 0.15	No	2009
Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.		I	0.10	0.15 - 0.15	INU	2009
INREGULATED CONTAMINANTS ²	NI/A	N1/A	0	0 0	N1 -	0011
ROMODICHLOROMETHANE (ppb)	N/A	N/A	8	8 - 8	No	2011
Ry-product of drinking water chlorination. ROMOFORM (ppb)	N/A	N/A	0.6	0.6 - 0.6	No	2011
nomoronm (ppu) Discharge from manufacturing plants; used to dissolve dirt and grease	IV/A	IV/A	0.0	0.0 - 0.0	INU	2011
HLOROFORM (ppb)	N/A	N/A	9	9 – 9	No	2011
sed as a solvent for fats, oils, rubber, resins; a cleansing agent found in fire extinguishers.	14/71	14//1	<u> </u>	0 0	110	2011
IBROMOMETHANE (ppb)	N/A	N/A	6	6 – 6	No	2011
Ised as a chemical reagent; an intermediate in organic synthesis.						
ULFATE	N/A	N/A	76	76 – 76	No	2009
rosion of naturally occurring deposits.						
TATE REGULATED CONTAMINANTS						
ODIUM (ppm) ³	N/A	N/A	110	110 – 110	No	2009
rosion of naturally occurring deposits; used as a water softener.						
2010 WATER QUA	LITY DAT	TA – SIUE	SAMPLING			
ISINFECTION/DISINFECTANT BY-PRODUCTS						
ALOACETIC ACIDS [HAA'S] (ppb)	N/A	60	1.3	1.3-1.3	No	2010
By-product of drinking water chlorination.			-	-	-	
THM's [TOTAL TRIHALOMETHANES] (ppb)	N/A	80	52.7	52.7-52.7	No	2010
By-product of drinking water chlorination.						
IORGANIC CONTAMINANTS						
OPPER (ppm)	1.3	AL=1.3	0.604 (90th % tile)	0 exceeding AL	No	2010
Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood						
reservatives.	_					
EAD (ppb)	0	AL=15	8.49	1 exceeding AL	No	2010
orrosion of household plumbing systems; erosion of natural deposits.				AL		

Water Quality Data Table Footnotes

 $\overline{Fluoride}$ is added to the water supply to help promote strong teeth. The Illinois Dept. of Public Health recommends an optimal fluoride level of $\overline{0.9}$ to 1.2 ppm.

²UNREGULATED CONTAMINANTS;

Maximum contaminant levels (MCL's) for these contaminants have not been established by either state or federal regulations, nor has mandatory health effects language. The purpose for monitoring these contaminants is to assist USEPA in determining the occurrence of unregulated contaminants in drinking water, and whether future regulation is warranted.

3SODIUM

There is not a state or federal MCL for sodium. Monitoring is required to provide information to consumers and health officials that are concerned about sodium intake information to consumers and health officials that are concerned about sodium intake due to dietary precautions. If you are on a sodium-restricted diet, you should consult a physician about this level of sodium in the water.

WATER QUALITY DATA DEFINITION OF TERMS:

MCLG: Maximum Contaminant Level Goal, or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCGLs allow for a margin of safety. MCL: Maximum Contaminant Level, or the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCGLs as feasible using the best available treatment technology. AL: Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow. In most cases, the Level Found or Amount Detected column represents an average of sample result data collected during the sample year. The Range of Detection column represents a range of individual sample results, from lowest to highest that were collected during the sample year.

Abbreviations: nd – not detectable at testing limits. N/A – not applicable. ppm – parts per million or milligrams per liter. ppb – parts per billion or micrograms per liter.