

July 11, 2001

Summary of Water Supply Quality Control Testing Results

In helping with our continued commitment to the protection of the environment, health, and safety of our community, St. Charles County Government through its Division of Environmental Services (DES), is pleased to provide this summary of water supply quality control testing results. These results were determined by averaging thirteen years of sampling data obtained from the United States Department of Energy (USDOE), Missouri Department of Natural Resources (MDNR), St. Charles County, and independent contractors.

The test points include the combined "raw" water pumped from the Missouri River bottom to the water treatment works operated by the County Water Department located along Route 94 in the Weldon Spring area. The results also illustrate the quality of the "finished" or treated water produced by the plant and distributed to the major utilities including Public Water Supply District No. 2 of St. Charles County and Missouri-American Water Company.

We selected several key test parameters that are believed to be most associated with the contaminant sources that have been cleaned up by the federal government and its contractors over the past fifteen years. These projects include the DOE-managed remediation of the uranium processing complex and the Army Corps of Engineers-managed cleanup of the TNT-explosives complex.

We then compared these ten-year average results to two very important standards:

- "Background" range for naturally occurring deposits of these materials determined for the Missouri River bottomland.
- "MCL" or maximum contaminant level, which is the federal and state standard set by the United States Environmental Protection Agency (USEPA) and MDNR for allowable trace amounts of these substances considered safe for drinking water/public consumption.

This comparative chart clearly shows that our water "product" has tested well within the levels of those test parameters considered "background" and well below the "MCL" established. We believe this is important for your ongoing confidence in our systems. We will continue to monitor our supplies through this and other quality control programs to ensure the highest-level protection for our public. Please contact us with any questions or additional information at 636-949-7415.

**SUMMARY OF "RAW" WATER**

<u>Parameter</u>	<u>Average Concentration</u>	<u>Background Range</u>	<u>MCL</u>
Total Uranium	0.478 pCi/l*	2.03 pCi/l	20 pCi/l proposed 12/03 – currently
there is			no MCL for total uranium

Gross Alpha	8.18 pCi/l	9.64 pCi/l	15 pCi/l
Gross Beta	6.71 pCi/l	5.93 pCi/l	4 millirems per year
Nitro-aromatics	ND (non-detected)	ND (man-made compound)	0.11 µg/l suggested maximum per
DNR			
Metals – Arsenic	3.15 µg/l*	3.7 µg/l	50 µg/l
Metals – Barium	367.2 µg/l	408 µg/l	2000 µg/l
Sulfates	84.07 mg/l	37 mg/l	250 mg/l suggested maximum per DNR

### **SUMMARY OF “FINISHED” WATER**

<u>Parameter</u>	<u>Average Concentration</u>	<u>Background Range</u>	<u>MCL</u>
Total Uranium	0.424 pCi/l	2.03 pCi/l	20 pCi/l proposed 12/03 – currently
there is			no MCL for total
		uranium	
Gross Alpha	1.396 pCi/l	9.64 pCi/l	15 pCi/l
Gross Beta	4.829 pCi/l	5.93 pCi/l	4 millirems per year
Nitro-aromatics	ND (non-detected)	ND (man-made compound)	0.11 µg/l suggested maximum per
DNR			
Metals – Arsenic	3.612 µg/l	3.7 µg/l	50 µg/l
Metals – Barium	108.8 µg/l	408 µg/l	2000 µg/l
Sulfates	79.94 mg/l	37 mg/l	250 mg/l suggested maximum per DNR

\*µg/l = parts per billion

\*pCi/l = picocuries per liter