

the prohibited use of jars of copper sulfate to kill tree roots. Two jars can cause a spike as high as 600 ppb.

He also noted that tree roots are most likely to infiltrate older privately owned vitreous clay wastewater service lines. These clay pipes are no longer authorized for new construction because they are more vulnerable than PVC piping to cracking, loose seals on saddles for connection of individual service lines to district collection lines, and less effective joint seals in the connection between two sections of pipe. Copper sulfate does not repair the leaks caused by cracks or defective joint seals in the clay pipes. It kills tree roots for only a very short time,

Copper sulfate can also kill the bacteria that treat wastes in wastewater plants and in private septic systems as well as cause toxic hazardous material discharges that can result in stiff fines for the district and septic system owners.

Wicklund stated that Monument constituents can come to the district office at 130 Second St. to obtain an alternative treatment compound to copper sulfate for treating tree root intrusion in private service lines.

As usual, Monument had the highest concentration of wastes in its influent, due to having the tightest collection system that minimizes dilution from extra groundwater infiltration collection line leaks and rainwater intruding through leaky manhole lids. Even though this groundwater and rain is not wastewater, the districts must still pay to have the extra water treated by the wastewater plant. Woodmoor, as usual, had the highest wastewater influent flows, having more than three times the number of customers of Monument and Palmer Lake.

Burks noted that the plant is operating very efficiently with 98 percent removal of solid wastes and suspended solids, a far superior performance than the permit limit of 85 percent removal for both.

Timberline, an engineering consultant firm, has upgraded the automated flow and data acquisition reporting telemetry equipment and added an ammonia monitoring system in the

effluent flume building. The dedicated data recording network computer monitor has an added readout for the newly available ammonia information as well.

Regulatory report

Burks reversed his position expressed at the June JUC meeting on not joining the new monitoring group being formed by the Pikes Peak Area Council of Governments (PPACG) to initiate nutrient and metals monitoring in Monument and Fountain Creeks. He asked the JUC to support having Palmer Lake and Woodmoor reimburse Monument \$500 each for the \$1,500 check Monument had already paid on behalf of the Tri-Lakes facility. The payment goes toward one-time administrative costs of \$15,000 for PPACG to legally create the monitoring group. This cost was shared equally by the 10 current participating wastewater entities.

Reg. 85 requires nutrient monitoring by all state wastewa-

ter entities to begin in November, and the monitoring group would standardize data sampling procedures and minimize costs for all participating entities. For now, the finances are being handled temporarily by the Pikes Peak Regional Water Authority.

Burks also reversed his position on sharing all future monthly monitoring costs among the three owner districts on a flow basis and advocated dividing them equally, by thirds. He noted that other wastewater dischargers along these two creeks will be asked to participate in the monitoring group to get a more complete picture of the whole Fountain Creek watershed. Full participation also would reduce costs for each of the entities for supporting collection and reporting of the data to the state's data sharing network.

The total cost for operating the new monitoring group has been estimated to be \$60,000 to \$90,000 per year. The cost-shar-



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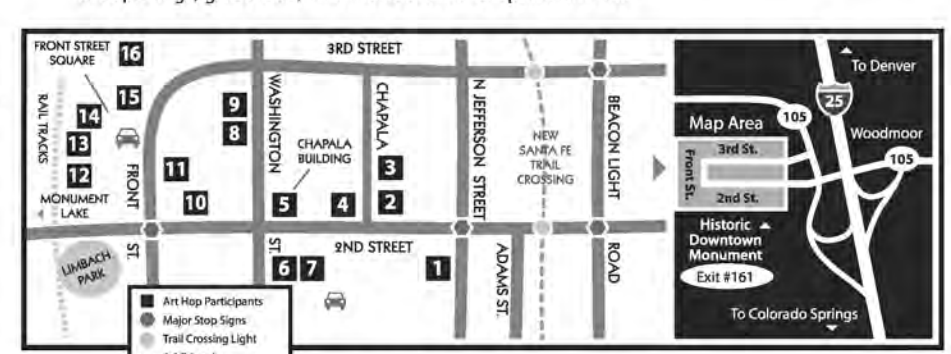






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