

quorum of two directors.

Burks said AF CURE will budget an extra \$10,000 in 2014 to have GEI Consulting perform environmental studies in Monument Creek and Fountain Creek to gather additional data on the current status of macroinvertebrates as a baseline to evaluate future enhanced removal of nutrients and metals. The budget for engineering firm Brown & Caldwell to manage AF CURE will increase about \$5,000 in 2014 to handle this additional administrative load. These costs will be divided evenly by all AF CURE members.

The facilities must take these measurements in order to gather enough data to scientifically evaluate stream health in Monument Creek and Fountain Creek with regard to nutrients, metals, and in-stream temperatures.

**Financial report**

Some of the payments Tri-Lakes Facility Manager Bill Burks noted were:

- \$1,664 to SGS Environment Testing Corp. for laboratory services for metals and nutrients analysis.

- \$4,878 to environmental attorney Tad Foster for legal services for the Water Quality Control Commission's triennial Arkansas River Basin hearings in Alamosa.
- Three payments to Hach Co. for a total of \$3,875 for equipment to analyze phosphorus.
- \$3,756 to Tetra Tech for work on a long-range facility plan.

The JUC unanimously accepted the June financial report.

**District manager's reports**

Smith reported that Monument was concluding the relining of 632 feet of old vitrified clay collection lines with Insituform in the vicinity of McShane Place. Other repair work had been completed in the alley between the north end of Washington Street and the railroad tracks. Burks noted unusually high amounts of suspended solids at Monument's south vault on June 11 and June 25. Smith stated that Monument's line cleaning had been completed before June 11.

There was a lengthy discussion about how well repairs and well screen acid cleaning may add suspended solids, as well as pipe repairs involving a lot of tree root removal and manhole ring repairs may cause surges in suspended solids. This kind of surge rarely causes more than a 1 percent increase in annual treatment costs for biosolids.

Becky Orcutt, Palmer Lake's district manager, noted that her district would perform its first relining of some of its pipes in the fall. Woodmoor District Manager Jessie Shaffer stated he had no issues to report.

**Facility manager's report**

Burks noted the following individual monthly effluent sample readings from the May Control Regulation 85 nutrients data collection report:

- Ammonia nitrogen – 0.22 milligrams per liter (mg/l)
- Nitrite nitrogen – 0.05 mg/l
- Nitrate nitrogen – 4.05 mg/l
- Total inorganic nitrogen – 4.32 mg/l
- Total Kjeldahl nitrogen – 2.10 mg/l
- Total nitrogen – 6.20 mg/l
- Total phosphorus was 5.9 mg/l

Burks also noted the following monthly grab sample readings in this April Reg. 85 report for samples taken in Monument Creek below the mixing zone for stream and effluent flows—where Monument Creek crosses Baptist Road:

- Ammonia nitrogen – 0.13 mg/l
- Nitrite nitrogen – 0.00 mg/l
- Nitrate nitrogen – 0.30 mg/l

- Total inorganic nitrogen – 1.02 mg/l
- Total Kjeldahl nitrogen – 1.50 mg/l
- Total nitrogen – 0.43 mg/l
- Total phosphorus was 1.3 mg/l

Some of the separate nutrient concentrations Burks noted for weekly testing in the May facility discharge monitoring report were:

- 30-day average for nitrogen ammonia – 0.7 mg/l; no permit limit
- Daily maximum for nitrogen ammonia – 1.4 mg/l; no permit limit
- Daily maximum for nitrate – 4.4 mg/l; permit limit is 23 mg/l
- Daily maximum for total inorganic nitrogen – 5.5 mg/l; permit limit is 23 mg/l

Some of the twice-per-month sampling results that Burks noted in the April facility discharge monitoring report were:

- 30-day average for sulfate – 33 mg/l; no permit limit
- 30-day average for chloride – 58.5 mg/l; no permit limit
- 30-day average concentration for copper – 6.0 µg/l; the new permit limit will be 16.0 µg/l, down from
- Daily maximum concentration for copper – 7.0 µg/l; the new permit limit will be 25.0 µg/l
- 30-day average manganese concentration – 43.5 µg/l; no permit limit
- 30-day average zinc concentration – 36.5 µg/l; no permit limit
- Daily maximum concentration for zinc – 48.0 µg/l; no permit limit
- Hydrogen sulfide, lead, selenium, and nonylphenol were undetectable

The average flow through the plant was 1.1 million gallons per day.

Burks noted that he prefers to use ferric chloride to remove total phosphorus because it's not as sensitive to temperature as alum.

Burks stated that the Water Quality Control Division had started the public comment period for his request have Tri-Lakes' expensive nonylphenol testing frequency requirement in the facility's discharge permit reduced from twice per month to once per quarter. All the facility's test results to date have shown that nonylphenol is undetectable in Tri-Lakes effluent.

Burks also noted that he had completed and submitted the facility's annual application for eligibility for annual state grants and loans in 2014 from the Colorado Water Resources and Power Development Authority.

The meeting adjourned at 11:02 a.m.

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